Features of your new air conditioner

2-step cooling

2-step cooling function will quickly cool the room to reach the set temperature and then it will adjust the fan speed and air flow direction automatically to help you stay comfortable and refreshing.

Fast cooling/heating

If you want the strong and cool/warm air, just select Fast function! It will get you the strongest air!

Comfort cooling/heating

If you want the comfortable and refreshing air, Comfort function will spread the cool/warm air indirectly to you, so that you can stay comfortable.

Single User

Use Single User function when you are alone at home. Single User function will minimize the energy consumption with inverter technology and reduce your electricity bill by adjusting the maximum operating capacity of the compressor.

Easy Filter

There is no grille to remove before separating the filter from the air conditioner! Therefore, filter can be cleaned easily, more frequently! Frequent filter cleaning will prevent dust from entering into the product or accumulating on the filter.

good'sleep function

good'sleep function will allow you to have deep, good night's sleep by adjusting the temperature, fan speed and air flow direction.

Smart Install

When the installation is done, your product will examine itself through trial operation to check if it was installed properly.

Easy Installation

It's so easy to install! You can easily hang the product on the wall and connect the pipes and wires by opening the cover on the bottom of the product. Now you won't have to tilt the product to connect the pipe and the wires!

This product has been determined to be in compliance with the R&TTE Directive (1999/5/EC), the Low Voltage Directive (2006/95/EC) and the Electromagnetic Compatibility Directive (2004/108/EC) of the European Union.

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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Product Specifications

Indoor unit				AR09HSFSPWKNEE	AR12HSFSPWKNEE
Cooling capacity	Min./Nom./Max.		kW	0.90 / 2.50 / 3.30	0.90 / 3.50 / 4.00
Heating capacity	Min./Nom./Max.		kW	0.80 / 3.20 / 6.30	0.80 / 4.00 / 7.00
Power input	Cooling	Min./Nom./Max.	kW	0.20 / 0.52 / 0.75	0.20 / 0.84 / 1.11
	Heating	Min./Nom./Max.	kW	0.17 / 0.64 / 1.85	0.17 / 0.95 / 2.20
Seasonal efficiency (according to EN14825)	Cooling	Energy grade		A+++	A++
		Pdesign	kW	2.5	3.5
		SEER		8.7	7.5
		Annual energy consumption	kWh	101	163
	Heating (Average climate)	Energy grade		A++	A++
		Pdesign	kW	2.3	3.0
		SCOP		4.9	4.8
		Annual energy consumption	kWh	657	875
	Heating (Colder climate)	Energy grade		A+	A+
		Pdesign	kW	2.3	3.0
		SCOP		4.0	4.0
		Annual energy consumption	kWh	1208	1575
Nominal efficiency (according to EN14511)	EER		W/W	4.81	4.17
	COP		W/W	5.00	4.21
	Energy grade	Cooling/Heating		A/A	A/A
Casing	Colour			White	
Dimensions	Unit	Width×Height×Depth	mm	896×261×261	
Weight	Unit		kg	11.0	
Fan - Air flow rate	Cooling	High/Mid/Low	m^3/min	10.0 / 6.9 / 3.9	10.6 / 7.5 / 4.5
	Heating	High/Mid/Low	m^3/min	11.1 / 8.0 / 5.0	11.4 / 8.3 / 5.3
Sound power	Cooling	High	dBA	56.0	58.0
Sound pressure	Cooling	High / Silence	dBA	38 / 17	40 / 17
	Heating	High / Silence	dBA	38 / 17	40 / 17
Piping connections	Liquid	OD	mm	6.35	
	Gas	OD	mm	9.52	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220 - 240	
Motor	Type / Output		W	DC / 27	
Software version	Main	Code / Version		DB91-01550B/150224	
Option	Seg 1~24 (1,7,13,19 are default values)			010005-176A47-271920-37C63F	010005-156A69-272328-37C83F

NOTE

- The original software version used for the product range is identified in this manual. For the software version issued at the time of manufacture, please refer to the mark plate of the indoor and outdoor units. The mark plate can be physically located on the side of both the indoor (Temperature display side) and outdoor units (Compressor side). In addition, for the current software version of the air conditioner Wi-Fi control application, please refer to the front screen of the application itself.

Outdoor unit					AR09HSFSPWKXEE	AR12HSFSPWKXEE
Dimension	Unit	Width×Height×Depth		mm	790×548×285	
Weight	Unit			kg	35.5	
Fan - Air flow rate	Cooling	High/Low		m^3/min	35.0 / 10.0	
	Heating	High/Low		m^3/min	35.0 / 10.0	
Sound power	Cooling	High		dBA	59.0	62.0
Sound pressure	Cooling	High		dBA	44.0	45.0
	Heating	High		dBA	44.0	45.0
Operation range	Cooling	Ambient	Min.~Max.	°C	-15 ~ 46	
	Heating	Ambient	Min.~Max.	°C	-25 ~ 24	
Refrigerant	Type / Charge			kg	R-410A / 1.2	
	Add charge after 10m			kg	0.015	
Piping connections	Lenght	OD - ID	Std. / Max.	m	5 / 15	
	Level difference	ID - OD	Max.	m	8	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220 - 240	
Current - 50Hz	Maximum Fuse amps(MFA)			A	15	
Compressor	Type				ROTARY BLDC	
Expansion Device	Type / Step				EEV / 480	
Motor	Type / Output			W	DC / 40	
Base heater	Type / Output			W	SHEATH / 150	
Software version	Main		Code / Version		DB91-01615A / 140401	
	Inv		Code / Version		DB91-01517A / 130705	
	EEProm		Code / Version		DB82-02051A / 140401	DB82-02052A / 140401

Safety precautions

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

Important safety symbols and precautions:

⚠ **WARNING**	Hazards or unsafe practices that may result in **severe personal injury or death.**
⚠ **CAUTION**	Hazards or unsafe practices that may result in **minor personal injury or property damage.**

❗	Follow directions.	🔌	Cut-off the power supply.
⊘	Do NOT attempt.	⊘	Do NOT disassemble.
⏚	Make sure the machine is grounded to prevent electric shock.		

FOR INSTALLATION ⚠ WARNING

❗ **Use the power line with the power specifications of the product or higher and use the power line for this appliance only. In addition, do not use an extension line.**

- ▶ Extending the power line may result in electric shock or fire.
- ▶ Do not use an electric transformer. It may result in electric shock or fire.
- ▶ If the voltage/frequency/rated current condition is different, it may cause fire.

The installation of this appliance must be performed by a qualified technician or service company.

- ▶ Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury and may also void warranty on the installed product.

Install a Isolation Switch next to the Air Conditioner (but not on the panels of the Air Conditioner)and circuit breaker dedicated to the air conditioner.

- ▶ Failing to do so may result in electric shock or fire.

Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.

- ▶ Failing to do so may result in electric shock, fire, explosion, problems with the product.

⊘ **Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.**

▶ This may result in electric shock or fire.

Never install the outdoor unit in a location such as on a high external wall where it could fall.

▶ If the outdoor unit falls, it may result in injury, death or property damage.

⏚ **This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.**

▶ Failure to do so may result in electric shock, fire, and explosion.

▶ Make sure to use a socket-outlet with ground.

FOR INSTALLATION ⚠ CAUTION

❗ **Install your appliance on a level and hard floor that can support its weight.**

▶ Failing to do so may result in abnormal vibrations, noise, or problems with the product.

Install the draining hose properly so that water is drained correctly.

▶ Failing to do so may result in water overflowing and property damage. Avoid adding drain to waste pipes as odours may arise in the future.

When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.

▶ The water generated during the heating operation by the outdoor unit may overflow and result in property damage.
In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

FOR POWER SUPPLY ⚠ WARNING

❗ **When the circuit breaker is damaged, contact your nearest service center.**

⊘ **Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.**

▶ This may result in electric shock or fire.

Safety precautions

FOR POWER SUPPLY ⚠ CAUTION

When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.

▶ Failing to do so may result in electric shock or fire.

FOR USING ⚠ WARNING

If the appliance is flooded, please contact your nearest service center.

▶ Failing to do so may result in electric shock or fire.

If the appliance generates a strange noise, a burning smell or smoke, cut-off the power supply immediately and contact the nearest service center.

▶ Failing to do so may result in electric shock or fire.

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line. Do not touch the appliance or power line.

▶ Do not use a ventilating fan.

▶ A spark may result in an explosion or fire.

To reinstall the air conditioner, please contact your nearest service center.

▶ Failing to do so may result in problems with the product, water leakage, electric shock, or fire.

▶ A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.

▶ Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.

In the event of a service issue, please refer to the troubleshooting guide of the relevant supporting technical manuals. It is recommended that a skilled service technician be contacted for support. Should urgent support be required then, using the information provided, contact the local Samsung office via email or telephone so that support can be initiated via our approved service centres (ASC'S) within 24hrs.

Do not touch the circuit breaker with wet hands.

▶ This may result in electric shock.

Do not turn the air conditioner off with the circuit breaker while it is operating.

▶ Turning the air conditioner off and then on again with the circuit breaker may cause a spark and result in electric shock or fire.

After unpacking the air conditioner, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.

▶ If a child places a bag over its head, it may result in suffocation.

Do not touch the air flow blade with your hands or fingers during the heating operation.

▶ This may result in electric shock or burns.

Do not insert your fingers or foreign substances into the air inlet/outlet of the air conditioner.

▶ Take special care that children do not injure themselves by inserting their fingers into the product.

Do not strike or pull the air conditioner with excessive force.

▶ This may result in fire, injury, or problems with the product.

Do not place an object near the outdoor unit that allows children to climb onto the machine.

▶ This may result in children seriously injuring themselves.

Do not use this air conditioner for long periods of time in badly ventilated locations or near infirm people.

▶ Since this may be dangerous due to a lack of oxygen, Open a window at least once an hour.

If any foreign substance such as water has entered the appliance, cut-off the power supply and contact the nearest service center.

▶ Failing to do so may result in electric shock or fire.

Do not attempt to repair, disassemble, or modify the appliance yourself.

▶ Do not use any fuse (such as cooper, steel wire, etc.)other than the standard fuse.

▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.

FOR USING | ⚠**CAUTION**

❗ **Do not place objects or devices under the indoor unit.**

▶ Water dripping from the indoor unit may result in fire or property damage. (example electrical appliances)

Check that the installation frame of the outdoor unit is not broken at least once a year.

▶ Failing to do so may result in injury, death or property damage.

Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.

⃠ **Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**

▶ This may result in electric shock, fire, problems with the product, or injury.

Do not operate the appliance with wet hands.

▶ This may result in electric shock.

Do not spray volatile material such as insecticide onto the surface of the appliance.

▶ As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

Do not drink the water from the air conditioner.

▶ The water may be harmful to humans.

Do not apply a strong impact to the remote controller and do not disassemble the remote controller.

Do not touch the pipes connected with the product.

▶ This may result in burns or injury.

Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.

▶ This may result in property damage.

Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.

▶ This may result in harm to humans, animals or plants.

⊘ **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

For use in Europe : This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

FOR CLEANING ⚠WARNING

⊘ **Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.**

- This may result in discoloration, deformation, damage, electric shock or fire.

Before cleaning or performing maintenance, cut-off the power supply and wait until the fan stops.

- Failing to do so may result in electric shock or fire.

FOR CLEANING ⚠CAUTION

❗ **Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**

- This should be done by a qualified technician please contact your installer or service center.

⊘ **Do not clean the inside of the air conditioner by yourself.**

- For cleaning inside the appliance, contact your nearest service center.
- When cleaning the internal filter, refer to the descriptions in the 'Cleaning the air conditioner' section.
- Failure to do may result in damage, electric shock or fire.

Checking before use

Operation ranges

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

Mode	Indoor temperature	Outdoor temperature	Indoor humidity
Cooling	16 ˚C~32 ˚C	-15 ˚C~46 ˚C	Relative humidity 80% or less
Heating	8˚C~27˚C	-25 ˚C~24 ˚C	-
Dry	18 ˚C~32 ˚C	-15 ˚C~46 ˚C	-

▶ If the air conditioner operates in cooling mode for long period of time in high humidity area, dew may be formed.

▶ If the outdoor temperature goes down to -5 °C, heating capacity may decrease as much as 60 %~70 % of specified capacity according to the using conditions .

Maintaining your air conditioner

Internal protections via the unit control system

▶ This internal protection operates if an internal fault occurs in the air conditioner.

Type	Description
Against cold air	The internal fan will be off to prevent cold air when the heat pump is heating.
Defrost cycle	The internal fan will be off to defrost ice when the heat pump is heating. Vertical air flow blade will be closed during defrost cycle and it will open again during heating operation after defrost cycle.
Protect compressor	The air conditioner does not start operating immediately to help protect the compressor of the outdoor unit after it has been started.

NOTE

- If the heat pump is operating in Heat mode, defrost cycle is actuated to help remove frost from an outdoor unit that may have deposited at low temperatures.
  The internal fan is switched off automatically and restarted only after the defrost cycle is completed.

Smart install

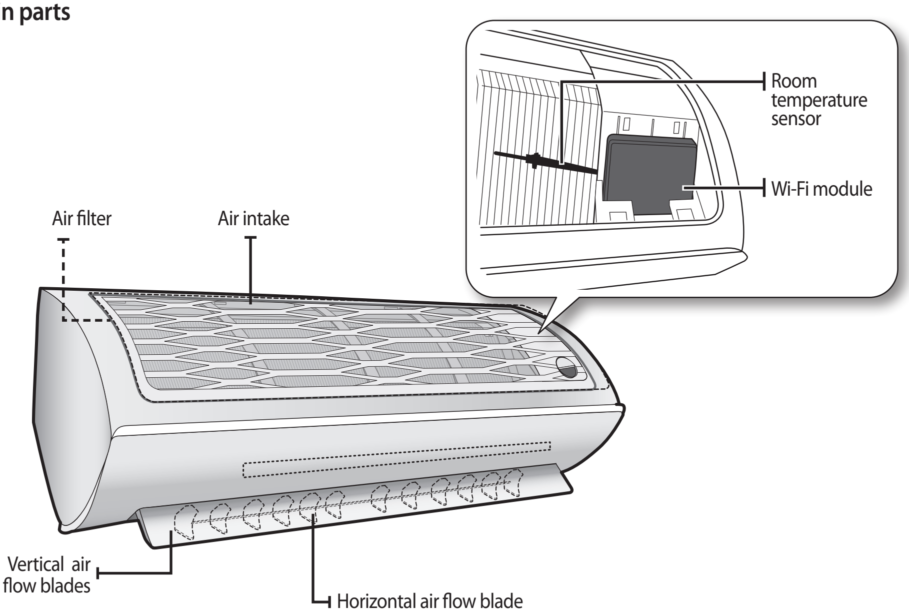
▶ Through Smart install function, installer can check if the installation was done properly.

▶ If the installation was not done properly, error indicator will turn on the indoor unit display.
Therefore user will know if the installation was done properly or not.

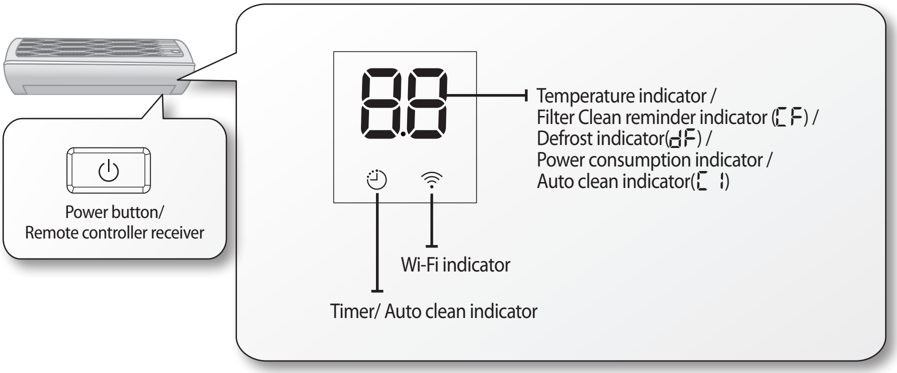
Checking the name of the parts

Your air conditioner may slightly look different from illustration shown below depending on your model.

Main parts


Room temperature sensor
Wi-Fi module
Air filter
Air intake
Vertical air flow blades
Horizontal air flow blade

Display

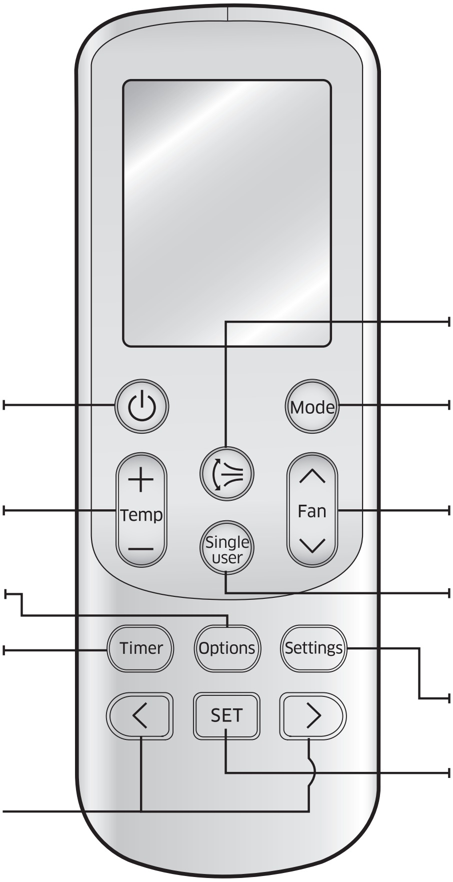

Temperature indicator /
Filter Clean reminder indicator (CF) /
Defrost indicator(dF) /
Power consumption indicator /
Auto clean indicator(C 1)
Wi-Fi indicator
Timer/ Auto clean indicator
Power button/
Remote controller receiver

Checking the remote controller

- Point the remote controller towards the remote controller receiver of the indoor unit.
- When you properly press the button on the remote controller, you will hear beep sound from the indoor unit and a transmit indicator(📶) appears on the remote controller display.

Remote controller buttons

✳ Before using the functions of the remote controller, you should set the current time. (Refer to page 19)



Power ⏻
Turn on/off the air conditioner

Temp + –
Increase/Decrease the temperature by 1 ˚C.

Options
Select options during operation

Timer
Select Timer option

Directional < >
Move through the Timer, Options or Settings menu to make a selection

Vertical air swing
Activate/Deactivate vertical air flow blade movement automatically

Mode
Set one of the 5 operating modes

Fan ˄ ˅
Adjust the fan speed

Single User
Turn on/off the Single User function which reduces energy usage while operating in cool mode.

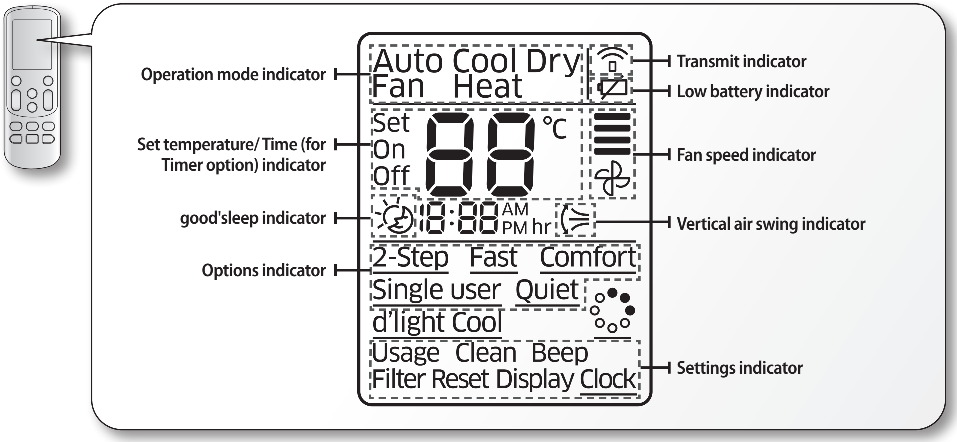
Settings
Select settings

SET
Set/Cancel the selected option or setting

NOTE

- In case you wish to cancel the options or settings that you have just set, press the **Options** or **Settings** button again, then the most recently selected item will blink and you may simply cancel it by pressing the SET button while selected item is blinking.

Remote controller display


Operation mode indicator
Set temperature/ Time (for Timer option) indicator
good'sleep indicator
Options indicator
Auto Cool Dry
Fan Heat
Set
On
Off
88
°C
8:88
AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock
Transmit indicator
Low battery indicator
Fan speed indicator
Vertical air swing indicator
Settings indicator

CAUTION

- Make sure that the water does not get to the remote controller.
- The following functions are displayed on the remote controller display but not supported in this model.
  - **SPi** (⁘) / d'light Cool
- When turning off and turning on the remote controller, the **Timer, Options** and **Settings** set before turning off the remote controller are cancelled. However, the fan direction does not change.

Low Battery warning

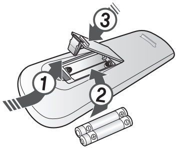
When the battery is exhausted, (⊠) will be displayed in the remote controller display. When the icon appears, change the batteries. The remote controller requires two 1.5 V AAA type batteries.

Storing the remote controller

When you do not use the remote controller for long time, remove the batteries from the remote controller and store it.

Inserting the batteries

1. **Push the lever as arrow indicates on the rear side of the remote controller and pull up.**
2. **Insert two AAA batteries.**
   Check and match the "+" and "-" signs accordingly. Make sure you have inserted the batteries in correct position.
3. **Close the cover by place it back to its original position.**
   You should hear click sound when the cover is locked properly.



NOTE

- The signal may not be received well of electronic lighting style fluorescent lamps such as inverter fluorescent lamps are in the same space.
- If other electrical products operate by the remote controller, call your nearest contact center.

Correct disposal of batteries in this product

(Applicable in countries with separate collection systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66.
If batteries are not properly disposed of, these substances can cause harm to human health or the environment.
To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Basic function

Basic operation is an operation mode that can be selected by pressing the **Mode** button.

Auto(2-Step Cooling or Heat)

In Auto mode, the air conditioner will automatically set the temperature and fan speed depending on the room temperature.

- 2-Step Cooling mode sets the air conditioner to operate in Fast + Cool mode when set temperature is lower than indoor temperature, and then the air conditioner will automatically operate in Dry mode when indoor temperature reaches set temperature.

Cool

In Cool mode, the air conditioner will cool your room. You can adjust the temperature and the fan speed to feel cooler in hot season.

- If current outside temperature is much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.
- Quiet mode makes the noise quieter during the operation of the indoor unit in the Cool mode.

Dry

The air conditioner in Dry mode acts like a dehumidifier by removing moisture from the indoor air.
Dry mode makes the air feel refreshing in a humid climate.

To activate the Dry mode, set temperature on the remote controller should be lower than indoor room temperature.

Fan

Fan mode can be selected to circulate your room. Fan mode will be helpful to refresh the stale air in your room.

Heat

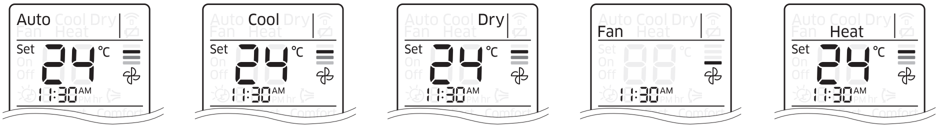
In heating mode, the air conditioner will heat your room. You can adjust the temperature to feel warmer during the cold season.

- Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up.
- Quiet mode makes the noise quieter during the operation of the indoor unit in the Heat mode.
- Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperature is extremely low.
  Use an additional heating appliance in combination with the air conditioner if you feel the air conditioner heats insufficiently.

Press the ⏻ button to turn on the air conditioner.

Press the Mode button to set the operating mode.

- Each time you press the **Mode** button, the mode will change in order of Auto, Cool, Dry, Fan and Heat.



Press the Temp button to adjust the temperature.

Auto	You can adjust the set temperature by 1 °C within the range of 16 °C~30 °C.
Cool	You can adjust the set temperature by 1 °C within the range of 16 °C~30 °C.
Dry	You can adjust the set temperature by 1 °C within the range of 18 °C~30 °C.
Fan	Temperature adjustment is not possible.
Heat	You can adjust the set temperature by 1 °C within the range of 8 °C~30 °C.

Press the Fan button to set the desired fan speed.

Auto	(Auto)
Cool	(Auto), (Low), (Med), (High), (Turbo)
Dry	(Auto)
Fan	(Low), (Med), (High), (Turbo)
Heat	(Auto), (Low), (Med), (High), (Turbo)

NOTE

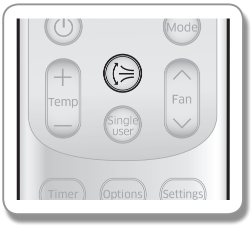
- Dry mode is only available in the cooling mode.

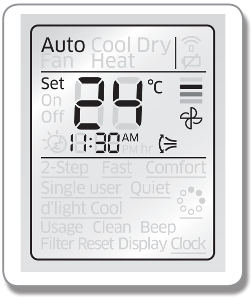
Adjusting the air flow direction

This function will allow you to adjust the air flow direction vertically.

Press the button to make air flow blades vertically.

Vertical air flow


Mode
Temp
Fan
Single user
Timer
Options
Settings


Auto Cool Dry
Fan Heat
Set
On
Off
24 ℃
11:30 AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

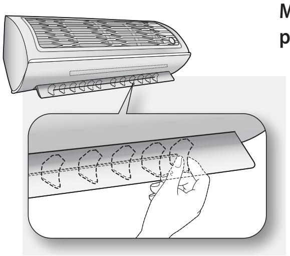
Remote controller display

- ▶ To keep the air flow direction in a constant direction, press the button again.
  The air flow blade(s) will stop the movement.
- ▶ If you adjust the vertical air flow blade manually, it may not close completely when you turn off the air conditioner.

NOTE

- Adjusting the air flow direction is not available in good'sleep mode while it is in cool mode.
- However, you can adjust the air flow direction in good'sleep mode while it is in heat mode .

Horizontal air flow



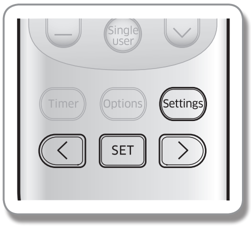
Move the blade pin lever left or right to keep the air flow direction in a constant position you prefer.

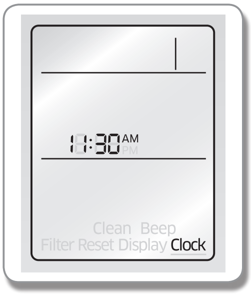
CAUTION

- To avoid the risk of personal injuries, adjusting the horizontal air flow direction should only be done when the unit is turned off completely. There is a potential risk of personal injury when the unit is mishandled.

Setting the Current time

Before using the functions of the air-conditioner, set the current time.





Remote controller display

1. Press the **Settings** button.
2. Press the <, > or **Settings** button until (Colck) indicator starts to blink.
3. Press the **SET** button to set the **Colck** function.
    - (Colck) indicator will be displayed on the remote controller display and you can set the time.
4. Press the < > button to set the time.
    - You can set the time in hourly units from 1 hour ~ 12 hours according to AM, PM and in minute units from 0 ~ 59 minutes.
5. Press the **SET** button to complete the current time setting.
    - Current time setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the current time on the remote controller display.

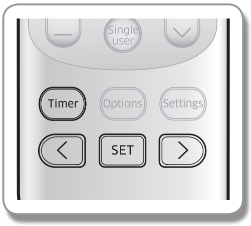
Setting the On/Off timer

CAUTION

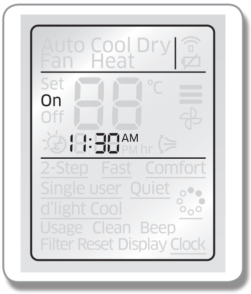
- Check the current time on the remote controller before using this function.
- The default time is 1 AM on the remote controller. The current time is reset to default time after changing the batteries.

You can set the air conditioner to turn on/off automatically at desired time.

Setting **On timer** while the air conditioner is off / **Off timer** while the air conditioner is on

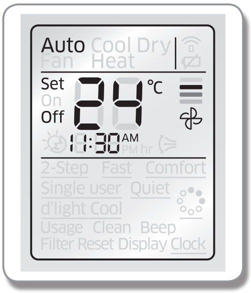

Single user
Timer
Options
Settings
SET

Setting On timer


Auto Cool Dry
Fan Heat
Set
On
Off
88 °C
11:30 AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

Setting Off timer


Auto Cool Dry
Fan Heat
Set
On
Off
24 °C
11:30 AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

1. Press the **Timer** button to select (On/Off).
   - (On/Off) indicator will keep blinking and you can set the time.
2. Press the ◁ ▷ button to set the time.
   - You can set the time in hourly units from 1 hour ~ 12 hours according to AM, PM and in minute units from 0 ~ 59 minutes.
3. Press the **SET** button to complete the On/off timer setting.
   - (On/Off) indicator and the set time of the timer will be displayed on the remote controller display and the Timer indicator (⏲) will be displayed on the indoor unit display.
   - On/Off timer setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (On/Off) indicator on the remote controller display and the Timer indicator (⏲) on the indoor unit display.

Cancel

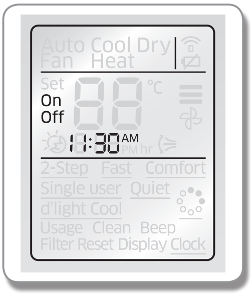
- ▶ Press the **Timer** button → select (On/Off) → press the ◁ or ▷ button →set the timer to -.- → press the **SET** button.
- ▶ Press the **Power** (⏻) button.

NOTE

- When **On/Off timer** setting is completed, the set status will be displayed for 3 seconds, and then only (On/Off) indicator will remain on the remote controller display thereafter.
- If you press the **Power** ⏻ button on the indoor unit after setting the On/Off timer from the remote controller, Timer indicator on the indoor unit display will disappear and the On/Off timer will be cancelled. Even though the On/Off timer is cancelled, (On/Off) indicator on the remote controller will remain displayed.
- When the On timer is set while the air conditioner is off, Timer indicator (⏲) will be displayed and remain on until the On timer turns on.
- Off timer may not work depending on the On/Off status of the indoor unit and the On/Off status of the indicator on the remote controller display.
- Only the latest setting timer will be applied between the On Timer/Off Timer and **good'sleep** Off timer functions.

Additional options available in On/Off timer mode (When the remote controller is on)	
Mode	You can select from Auto/Cool/Dry/Fan /Heat.
+ Temp –	You can set the temperature after selecting the operation mode. Temperature adjustment is available when Auto/Cool/Dry /Heat mode is selected.

Setting on timer and off timer simultaneously


Auto Cool Dry
Fan Heat
Set
On
Off
88 °C
11:30 AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

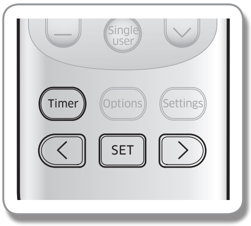
Follow the same process for setting on timer and off timer.

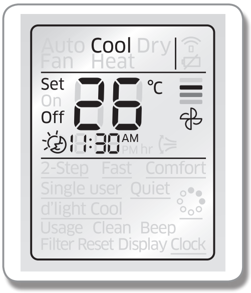
NOTE

- On timer and Off timer setting time should be different from each other.
- Press the **Power** ⏻ button on the remote controller while timer combination is on. Both of the On and Off timer will be canceled and the indicator will disappear.

good’sleep mode

For a comfortable sleep, the air conditioner will operate in 3 stages in order of Fall asleep ▷ Sound sleep ▷ Wake up stage.
When the air conditioner is operating in Cool/Heat mode;





Remote controller display

1. Press the **Timer** button to select (💤).
   - (💤) indicator will keep blinking and you can set the time.
2. Press the 〈 〉 button to set the time.
   - You can set the time in half hour unit from 30 minutes (0.5 on the display) ~ 3 hours and hour unit from 3~12 hours.
   - Time can be set from minimum 30 minutes to maximum 12 hours.
   - Default time setting for the good’sleep mode is 8 hours.
3. Press the **SET** button to complete the good’sleep mode setting.
   - (💤) indicator and the set time of the good’sleep mode will be displayed on the remote controller display.
   - Timer indicator (🕒) will be displayed on the indoor unit display.
   - good’sleep mode setting will be cancelled if you don't press the **SET** button within 10 seconds after setting the time. Therefore, check for the (💤) indicator on the remote controller display and the Timer indicator (🕒) on the indoor unit display.

Cancel ▶ Press the **Timer** button → select (💤) → press the 〈 or 〉 button → set the timer to -.- → press the **SET** button.

Additional options available in good’sleep mode	
+ Temp –	You can adjust the set temperature by 1 °C within the range of 16˚C~30˚C (Cool) / 8˚C~30˚C (Heat) .
⇶	When the good’ sleep mode is on. In Cool mode : Air flow direction will be adjusted automatically. In Heat mode : Adjusting air flow direction is available.

Temperature and fan speed change in good’sleep mode

- Fall asleep: Eases you into sleep by dropping the temperature.
- Sound sleep: Relaxes your body and raises your temperature slightly.
- Wake up: Allows you to wake up from comfortable intermittent air and it makes you feel refreshed.

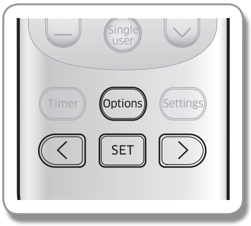
NOTE

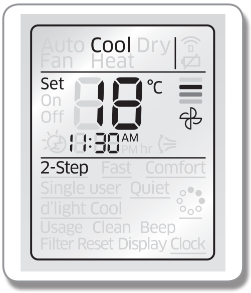
- Recommended set temperature is between 25 °C ~ 27 °C for cooling and 21 ˚C~23 ˚C for heating.
- If the set temperature is too low, you may feel cold during sleep or catch a cold.
- Optimal operation hour of good’sleep mode is 8 hours. Therefore, if the time is set too short or long, you may not feel as comfortable as you would expect.
- If the good’sleep mode is set over 5 hours, Wake up stage will begin when 1 hour is remaining in the operation time and the air conditioner will stop automatically.
- When the On timer and the good’sleep function is set simultaneously, the air conditioner will only apply the function that was set later.

2-Step cooling function

2-Step Cooling function will set the air conditioner to cool the room quickly to reach the set temperature when the indoor temperature is higher than the set temperature, and then the air conditioner will automatically operate in Dry mode when indoor temperature reaches set temperature.

When the air conditioner is operating in Cool mode;


Single user
Timer
Options
Settings
SET


Auto Cool Dry
Fan Heat
Set
On
Off
18
°C
11:30 AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

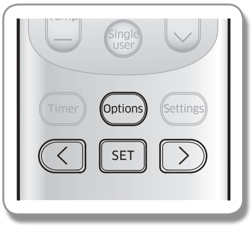
1. Press the **Options** button.
2. Press the 〈 , 〉 or **Options** button until (2-Step) indicator starts to blink.
3. Press the **SET** button to set the 2-Step Cooling function.
    - (2-Step)→(2-Step) indicator will be displayed on the remote controller display and **2-Step Cooling** function will begin.

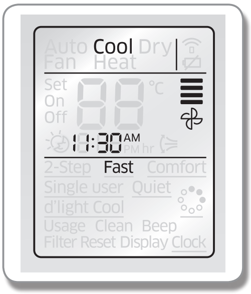
Cancel ▶ Press the **Options** button → Press the 〈 , 〉 or **Options** button to make the (2-Step) indicator blink and press the **SET** button.

Using the Fast function

You can set the Fast function to provide fast and powerful cooling/heating.

When the air conditioner is operating in Cool/Heat mode;


Temp
Single user
Timer
Options
Settings
SET


Auto Cool Dry
Fan Heat
Set
On
Off
88 °C
11:30 AM PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

1. Press the **Options** button.
2. Press the ‹, › or **Options** button until (Fast) indicator starts to blink.
3. Press the **SET** button to set the Fast function.
   - (Fast)→(Fast) indicator will be displayed on the remote controller display and **Fast** function will begin.

Cancel ▶ Press the **Options** button → Press the ‹, › or **Options** button to make the (Fast) indicator blink and press the **SET** button.

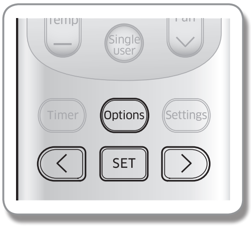
NOTE

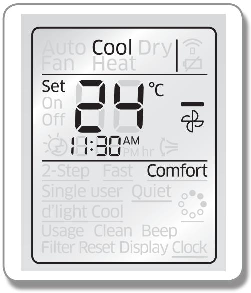
- Fast function is only available in Cool/Heat mode.
- Vertical air swing can be adjusted.
- Set temperature and fan speed cannot be adjusted.
- If the Fast function is selected while 2-Step Cooling/Comfort/Single user/Quiet/good'sleep function is on, corresponding function will be cancelled.
- When you select Fast function in Heat mode, you may not be able to increase fan speed in order to prevent any cool air from blowing.

Using the Comfort function

You can set the Comfort function to provide mild cooling/heating.

When the air conditioner is operating in Cool/Heat mode;


Temp
Single user
Fan
Timer
Options
Settings
SET


Auto Cool Dry
Fan Heat
Set
On
Off
24 °C
11:30 AM PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

1. Press the **Options** button.
2. Press the ‹, › or **Options** button until (Comfort) indicator starts to blink.
3. Press the **SET** button to set the Comfort function.
   - (Comfort)→(Comfort) indicator will be displayed on the remote controller display and **Comfort** function will begin.

Cancel ▶ Press the **Options** button →Press the ‹, › or **Options** button to make the (Comfort) indicator blink and press the **SET** button.

NOTE

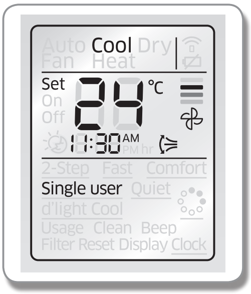
- Comfort function is only available in Cool/Heat mode.
- Vertical air swing can be adjusted.
- Set temperature can be adjusted, but fan speed cannot be adjusted.
- If the Comfort function is selected while 2-Step Cooling/ Fast/Single user/Quiet/good'sleep function is on, corresponding function will be cancelled.

Using the Single User function

This function will reduce the energy usage while the air conditioner is operating in Cool/Heat mode.

When the air conditioner is operating in Cool/Heat mode;

Single user
Timer
Options
Settings
SET


Auto Cool Dry
Fan Heat
Set
On
Off
24
°C
11:30 AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

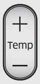
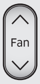
Remote controller display

1. Press the **Single user** button.
   - (Single user) indicator will be displayed on the remote controller display. Then ⚌ ⚌ _ _ will be displayed on the set temperature indicator part for few seconds and Single user function will begin.
   - When the Single user function is on, vertical air swing will turn on automatically.
   - If the current set temperature is lower than 24°C in Cool mode, it will be automatically raised to 24 °C.

Cancel ▶ Press the **Single user** button once again.

NOTE

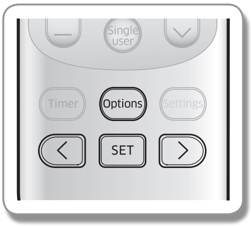
- Single user function is only available in Cool/Heat mode.
- If the Single user function is selected while 2-Step Cooling/Fast/Comfort / Quiet/good'sleep function is on, corresponding function will be cancelled.
- Vertical air swing will remain on even after the Single user function is cancelled.
- Select or cancel the **Single User** function with the **Options** button.
  - Press the **Options** button → press the 〈, 〉 or **Options** button to make (Single user) indicator blink and press the **SET** button.

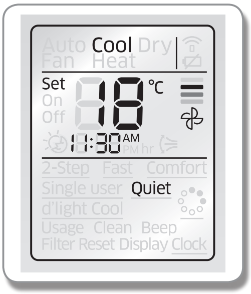
Additional options available in Single user function	
	You can adjust the set temperature by 1 °C within the range of 24 °C ~ 30 °C in Cool mode and 8 °C ~ 30 °C in Heat mode.
	✤ (Auto), ✤ (Low), ✤ (Med), ✤ (High), ✤ (Turbo) can be selected.
	Vertical air swing can be selected.

Using the Quiet function

You can reduce the noise generated from an indoor unit during Cool/Heat mode.

When the air conditioner is operating in Cool/Heat mode;


Single user
Timer
Options
Settings
SET


Auto Cool Dry
Fan Heat
Set
On
Off
18
°C
11:30
AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

1. Press the **Options** button.
2. Press the <, > **or Options** button until (Quiet) indicator starts to blink.
3. Press the **SET** button to set the Quiet function.
   - (Quiet)→(Quiet) indicator will be displayed on the remote controller display and **Quiet** function will begin.

Cancel ▶ Press the **Options** button → Press the <, > or **Options** button to make the (Quiet) indicator blink and press the **SET** button.

Additional options available in Quiet function	
+ Temp –	You can adjust the set temperature by 1 °C within the range of 16 °C ~ 30 °C in Cool mode and 8 °C ~ 30 °C in Heat mode.
∧ Fan ∨	Fan speed is set to ≡ (Auto).
⟲	Vertical air swing can be selected.

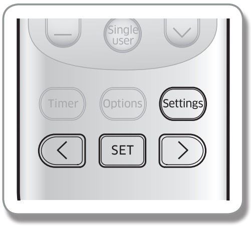
NOTE

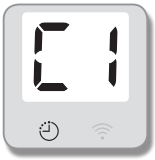
- Quiet function is only available in Cool/Heat mode.
- If the Quiet function is selected while 2-Step Cooling/Fast /Comfort/ Single user/**good'sleep** function is on, corresponding function will be cancelled.

Using the Auto clean function

Auto clean function will minimise the moisture inside of the indoor unit. Activate this function to help provide you with clean air.

When the air conditioner is operating;





Indoor unit display

1. Press the **Settings** button.
2. Press the ‹ , › or **Settings** button until (Clean) indicator starts to blink.
3. Press the **SET** button to set the Auto clean function.
   - 3 seconds after setting **Auto clean** function, (Clean) indicator on the remote controller display will disappear and **Auto clean** (⌷) and **Timer** (⏲) indicator will turn on the indoor unit display. Auto clean function will be activated after the air conditioner stops operating.
   - Duration of the Auto clean function can be different depending on the previous operation mode used.

     Auto(cool), Cool, Dry mode : 30 minutes.

     Auto(heat), Heat , Fan mode: 15 minutes.

Cancel ▶ Press the **Settings** button → Press the ‹ , › or **Settings** button to make the (Clean) indicator blink and press the **SET** button.

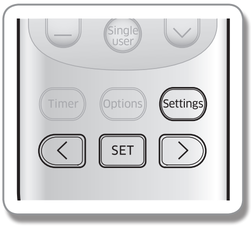
NOTE

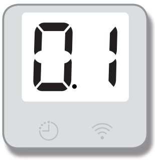
- When the operation mode is set during Auto clean function is activated, the air conditioner will operate in chosen operation mode and the Auto clean function will be re-activated when the operation stops.
- During the auto clean function, indoor fan will continue to run and air flow blade will remain open to expel ambient air.

Checking the power consumption

This function will display the amount of electricity consumed by operating the air conditioner.

When the air conditioner is operating;





Indoor unit display

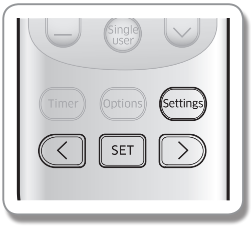
1. Press the **Settings** button.
2. Press the ‹ , › or **Settings** button until (Usage) indicator starts to blink.
3. Press the **SET** button to check the power consumption.
   - 3 seconds after setting power consumption checking function, (Usage) indicator on the remote controller will disappear.
   - Indoor unit will display the amount of Power consumption for few seconds and then return to usual status by displaying the set indoor temperature.
   - Power consumption will be calculated from the moment the air conditioner is turned on and calculated value will be reset when the air conditioner turns off.
   - 0.1 is the default value of the electricity consumption and 99 is the maximum value. Unit is in kWh.

NOTE

- When the air conditioner is not operating, power consumption will not be displayed on the indoor unit display.

Setting the Beep sound

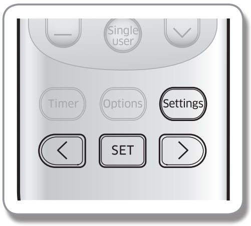
Beep sound from the indoor unit can be muted.

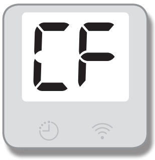


1. Press the **Settings** button.
2. Press the <, > or **Settings** button until (Beep) indicator starts to blink.
3. Press the **SET** button to mute the beep sound.
   - 3 seconds after setting **Beep sound** function, (Beep) indicator on the remote controller display will disappear and **Beep sound** function will begin.

Resetting the Filter clean reminder

When Filter clean reminder (CF) lights up on the indoor unit display, clean the filter and reset the reminder by following this instruction.



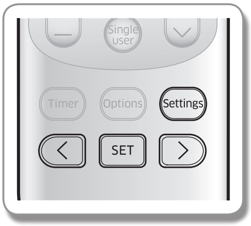


Indoor unit display

1. Press the **Settings** button.
2. Press the <, > or **Settings** button until (Filter Reset) indicator starts to blink.
3. Press the **SET** button to reset Filter clean reminder.
   - 3 seconds after setting **Filter clean reminder** function, (Filter Reset) indicator on the remote controller display will disappear and (CF) indicator on the indoor unit display will disappear.

Setting the Display option

Display lighting can be adjusted by following this instruction.



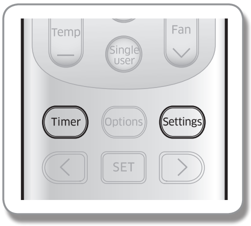
1. Press the **Settings** button.
2. Press the <, > or **Settings** button until (Display) indicator starts to blink.
3. Press the **SET** button to set the display status.
   - 3 seconds after setting **Display** function, (Display) indicator on the remote controller display will disappear and indoor unit display will be turned off.

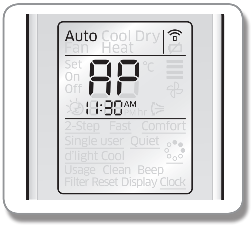
Cancel	▶ Press the **Settings** button → Press the <, > or **Settings** button to make (Display) indicator blink and press the **SET** button. ▶ (Display) indicator on the remote controller display will disappear and the indoor unit display will be turned on again.

Using the Smart A/C application

You can conveniently control your air conditioner anywhere with Smart APP.

WIFI(WPS) is not seen to new remote control LCD.(It is hidden function.)


Temp
Single user
Fan
Timer
Options
Settings
SET


Auto Cool Dry
Fan Heat
Set
On
Off
AP
°C
11:30
AM
PM hr
2-Step Fast Comfort
Single user Quiet
d'light Cool
Usage Clean Beep
Filter Reset Display Clock

Remote controller display

1. Press the **Timer** button to set the WiFi function.
   - Press the **Timer** button for 4 seconds.
   - (📶) will blink first, then(AP) appears on the remote controller display for few seconds and disappears. WiFi function will begin.

2. Press the **Settings** button to set the WPS function.
   - Press the **Settings** button for 4 seconds.
   - (📶) will blink first, then disappears and WPS function will begin.

NOTE

- For detail information, please refer to Smart A/C application manual.
- Smart A/C application may not be available for some models.

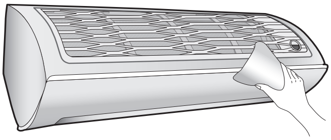
Cleaning the air conditioner

⚠ **CAUTION**

- **Make sure to turn off the power of the indoor unit and cut-off the power supply before cleaning the air conditioner.**

Cleaning the indoor unit

▶ Wipe the surface of the unit with a slightly damp micro fiber cloth when needed.



NOTE

- Contact the service center when you clean the indoor unit heat exchanger because it needs to be disassembled.
- Since the panel of the indoor unit is easily scratched, you should use a micro fiber cloth to clean the panel.
  When you use the micro fiber cloth, slightly dampen the cloth and remove any debris on the cloth to avoid scratches.

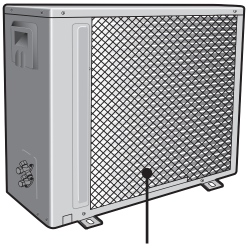
⚠ **CAUTION**

- Do not clean the display using alkaline detergent.
- Do not use sulfuric acid, hydrochloric acid, organic solvents (such as thinner, kerosene and acetone etc.) to clean the surface of the product or put any stickers on it.
  They may damage the surface of the air conditioner.

Cleaning the outdoor unit heat exchanger

▶ When dust accumulates on the heat exchanger, it may decrease cooling performance. Therefore, clean it regularly.

▶ Spray water to clean the dust.



(Illustration may differ slightly depending on the models)

NOTE

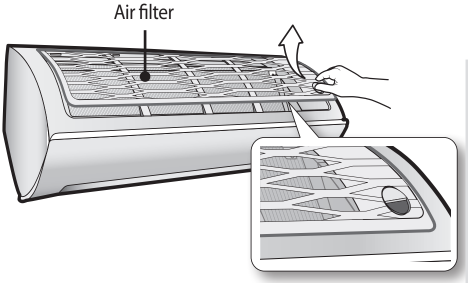
- If it is difficult to clean the outdoor unit heat exchanger on your own, contact service center.

⚠ **CAUTION**

- Be careful with the sharp edges on the outdoor unit heat exchanger.

Removing the Air filter

There is a hole on the bottom right side of the filter. Put your finger in that hole to get a grip on the filter and slightly push it up to release the hooks from the bottom side. Then, pull it down to remove the filter from the main body.

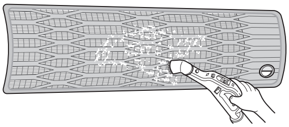


Cleaning the air filter

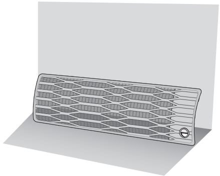
Washable foam based air filter captures large particles from the air. The filter is cleaned with a vacuum or by hand washing.

Remove the Air filter from the main body.

Clean the Air filter with a vacuum cleaner or soft brush. If dust is too heavy, rinse it with running water.



Dry the Air filter in a ventilated area.



Insert the Air filter back in its original position.

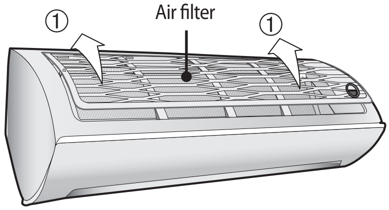
NOTE

- Clean the Air filter every 2 weeks. Cleaning term may differ depending on the usage and environmental conditions. In dusty area, clean it once a week.
- If the Air filter dries in a confined (or humid) area, odors may generate. If it occurs, re-clean and dry it in a well-ventilated area.

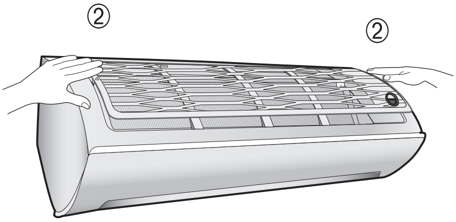
Cleaning the air conditioner

Reassembling the Air filter

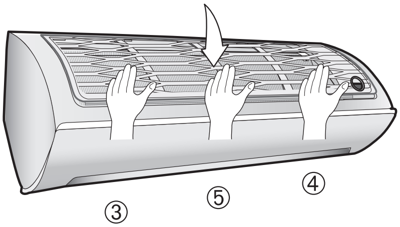
1. Put the filter on the main body and insert the hooks which are in the top of the Air filter into the the main body. ①



2. There's one hook in both side of the filter, press the surface of the Air filter softly and get the hooks into the main body. ②



3. Press the bottom of the filter lightly to securely fix the main body. ③④⑤



Maintaining the air conditioner

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. **Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and cut-off the power supply. There may be internal damage if moisture is left in components.**
2. **Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.**

Periodical checks

Refer to the following chart to maintain the air conditioner properly.

Type	Description	Every 2 weeks	Every 3 months	Every 4 months	Once a year
Indoor unit	Clean the air filter (1)	❑			
	Clean the condensate drain pan (2)				●
	Thoroughly clean the heat exchanger (2)				●
	Clean the cross fan (2)			●	
	Clean the condensate drain pipe (2)			●	
	Replace the remote controller batteries (1)				❍
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)			●	
	Clean the heat exchanger on the inside of the unit (2)				●
	Clean the electric components with jets of air (2)				●
	Verify that all the electric components are firmly tightened (2)				●
	Clean the fan (2)				●
	Verify that all the fan assembly is firmly tightened (2)				●
	Clean the condensate drain pan (2)				●

CAUTION	❑	**Periodical checks marked with a square should be performed more frequently if the area of installation is very dusty.**
	❍	**Periodical checks marked with a circle should be performed in line with guidance.**
	●	**Periodical checks marked with a spot should be performed by qualified personnel.**
	NOTE	**In accordance with local guidelines, for the products listed within this manual, spare parts will be made available for 10 years after the official manufacturers End of Life (EOL) date.**

Troubleshooting

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

PROBLEM	SOLUTION
The air conditioner does not work at all.	• Check power status and then operate the air conditioner again. • Plug in or switch on the circuit breaker and then operate the air conditioner again. • Ensure Isolator is switch on. • Check if you have set the Off Timer. Operate the air conditioner again by pressing the **Power** button.
The temperature adjustment is not working.	• Check if you have selected Fan/Fast mode. In these modes, set temperature is set to auto and you cannot adjust the temperature.
Cool/Warm air does not come out the air conditioner or performance is reduced.	• Check if the set temperature is higher(during Cool mode)/ lower(during Heat mode) than the current temperature. Press the **Temp +** or **-** button on the remote controller to change the set temperature. • Check if the Air filter is blocked by dirt. If there is a lot of dust on the Air filter, cooling(heating) performance may decrease. Clean them frequently. • Check if the outdoor unit is covered or installed near the obstacle. Take the cover off and take the obstacle away. When clearing the obstacle (e.g. snow or ice), use suitable tools so as to be careful not to damage the product nor injure yourself during this process. • Check if the air conditioner is operating in defrost mode. When the ice formed in winter or the outdoor temperature is too low, the air conditioner operates in defrost mode automatically. In defrost mode, indoor fan stops and warm air does not come out. • If the doors or windows are open, it may cause bad cooling (heating) performance. Close the doors and windows. • Check if the air conditioner has just been turned on after stopping cooling or heating operation. In this case, just a fan will run to protect the outdoor unit compressor. • Check if the pipe length is too long. When the pipe length exceeds maximum allowable pipe length, cooling (heating) performance may decrease.

PROBLEM	SOLUTION
Air flow adjustment is not working.	• Check if you have selected **good'sleep** mode. In cool mode, you cannot adjust the air flow direction. (If the **good'sleep** mode is operating in Heat mode, you can adjust the air flow direction.)
Fan speed adjustment is not working.	• Check if you have selected Auto/Dry/Fast/Comfort/ **good'sleep** mode. In these mode, fan speed is set to Auto and you cannot adjust the fan speed.
Remote controller is not working.	• Check if your batteries are depleted. • Make sure nothing is blocking your remote controller sensor. • Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves.
Timer function does not set.	• Check if you press the **SET** button on the remote controller after you have set the time.
The indicator is blinking continuously.	• Press the **Power** ⏻ button or disconnect the power plug/ switch off the auxiliary power switch. If the indicator is still blinking, contact the service center.
Odors permeate in the room during operation.	• Check if the appliance is running in a smoky area. Ventilate the room or operate the air conditioner in Fan mode for 1~2 hours. (We do not use smelly components in the air conditioner.) • Check the Drains have been cleared Regular Maintenance.
Error is indicated.	• When an indoor unit indicator blinks, contact the nearest service center. Please ensure the error code is passed onto the service center when booking the service call.
Noise is generated.	• Depending on the status of the air conditioner usage, noise can be heard when refrigerant flow movement changes. It is normal.
'Excessive Noise is Generated' and 'Reduced Performance'	• If excessive/irregular noise is generated in conjunction with reduced product performance, please refer to your service engineer to ensure the product is operating correctly.
Smoke is generated from the outdoor unit.	• If may not be a fire but it can be a steam generated by the defrost operation from outdoor heat exchanger during Heat mode in winter.
Water is dropping from the outdoor unit piping connection.	• Water may be generated because of the temperature difference. It is normal.

Safety precautions

Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

General information

- ▶ Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- ▶ For maximum safety, installers should always carefully read the following warnings.
- ▶ Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- ▶ This manual explains how to install an indoor unit with a split system with two SAMSUNG units.
  The use of other types of units with different control systems may damage the units and invalidate the warranty.
  The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- ▶ The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- ▶ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ▶ Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- ▶ In order to help prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- ▶ Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- ▶ The unit contains moving parts, which should always be kept out of the reach of children.
- ▶ Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- ▶ Do not place containers with liquids or other objects on the unit.
- ▶ All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- ▶ The packing material and exhaust batteries of the remote controller(optional) must be disposed of in accordance with current laws.
- ▶ The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

Installing the unit

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines.
Always disassemble the electric lines before the refrigerant tubes.

- ▶ Upon receipt, inspect the product to verify that it has not been damaged during transport.
  If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)

- After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- To prevent injury when accidentally touching the indoor unit fan, its recommended to install the indoor unit as high as possible.
- The air conditioner should be used only for the applications for which it has been designed : the indoor unit is not suitable to be installed in areas used for laundry.
- Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.
  For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Power supply line, fuse or circuit breaker

- Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- Always verify that a suitable grounding connection is available.
- Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- Always verify that the cut-off and protection switches are suitably dimensioned.
- Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- Always verify that electric connections (cable entry, section of leads, protections…) are compliant with the electric specifications and with the instructions provided in the wiring scheme.
  Always verify that all connections comply with the standards applicable to the installation of air conditioners.

Choosing the installation location

Indoor unit

- For Wi-Fi Air-conditioner installation, select indoor unit location near to wireless router.
  In case Wi-Fi signal strength weakened , Smart APP may be disconnected depending on the Wi-Fi signal strength.
- Where airflow is not blocked.
- Where cool air can be distributed throughout the room.
- Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- Wall that prevents vibration and is strong enough to hold the product weight.
- Out of the direct sunlight .
- 1 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- As far away as possible from the fluorescent and incandescent lights (so that the remote controller can be operated well).
- A place where the air filter can be replaced easily.
- Don't install directly above electronics equipment as leaking water may cause damage if not serviced. (eg. Computers, TV, etc).

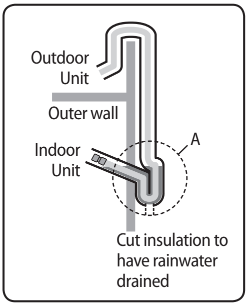
Choosing the installation location

Outdoor Unit

- Where it is not exposed to strong wind
- Well ventilated and dustless places
- Where possible keep out of sunlight and rain
- Where neighbors are not annoyed by operation sound or hot air
- Solid wall or support that prevents vibration and is strong enough to hold the product weight
- Where there is no risk of flammable gas leakage
- When installing the unit at a high place be sure to fix the unit legs
- 3 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated)
- Install the unit horizontally
- Place where drained water does not become any problem.
- Place with no plants (especially climbing plants) and where small animal can not access.
- Outdoor unit should not be place higher than 2.4 m or directly under eaves for accessibility for service and OH&S reasons.

CAUTION

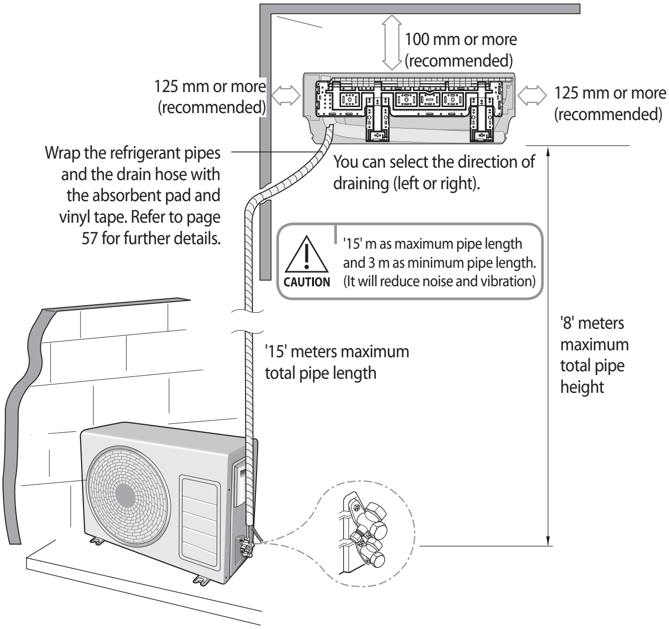
- Avoid the following places to prevent malfunction of the unit
  - Where there is machine oil
  - Where sulfide gas exists
  - Salty environment such as seaside areas
  - Other special atmosphere areas



Cut insulation to have rainwater drained

CAUTION

Make an U-trap(A) on the pipe (which is connected to the indoor unit) at outer wall and cut the bottom part of the insulation (about 10 mm) to prevent rainwater from getting inside through the insulation. However, be careful not to damage the pipe.

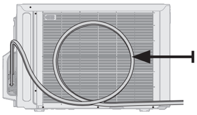

100 mm or more (recommended)
125 mm or more (recommended)
125 mm or more (recommended)
'15' meters maximum total pipe length
'8' meters maximum total pipe height

Wrap the refrigerant pipes and the drain hose with the absorbent pad and vinyl tape. Refer to page 57 for further details.

You can select the direction of draining (left or right).

CAUTION

'15' m as maximum pipe length and 3 m as minimum pipe length. (It will reduce noise and vibration)



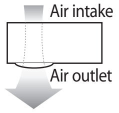
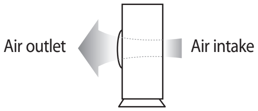
Make at least one round: It will reduce noise and vibration

※ The appearance of the unit may be different from the diagram depending on the model.

Recommended Space Requirements for the Outdoor Unit

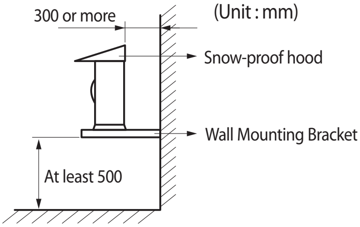
When installing 1 outdoor unit

◆Figure Description

Top view	Side view
 Air intake Air outlet	 Air outlet Air intake

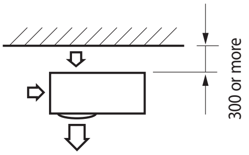
- ⇩, ⇦ Air flow direction.

◆Installation minimum be done above 500 mm from the ground (must).
◆Snow-proof hood installation is recommended for heavy snowing region (recommend).
◆For low ambient model.

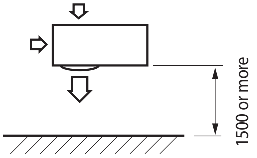

300 or more
(Unit : mm)
Snow-proof hood
Wall Mounting Bracket
At least 500

(Unit : mm)

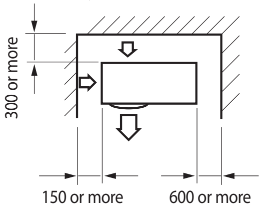
◆When the air outlet is opposite the wall



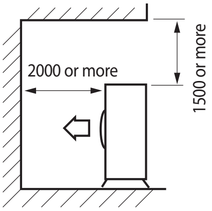
◆When the air outlet is towards the wall


1500 or more

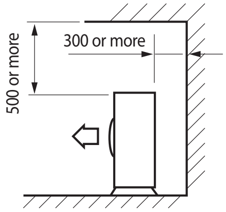
◆When 3 sides of the outdoor unit are blocked by the wall


300 or more
150 or more
600 or more

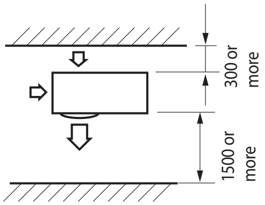
◆The upper part of the outdoor unit and the air outlet is towards the wall


2000 or more
1500 or more

◆The upper part of the outdoor unit and the air outlet is opposite the wall


500 or more
300 or more

◆When the walls are blocking front and the rear side of the outdoor unit

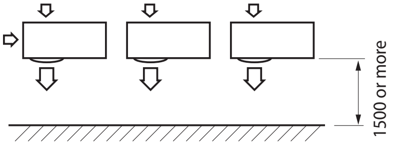

300 or more
1500 or more

Choosing the installation location

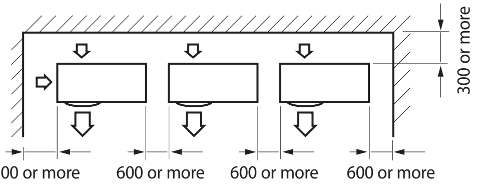
When installing more than 1 outdoor unit

(Unit : mm)

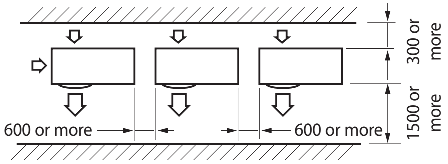
◆ When the air outlet is towards the wall


1500 or more

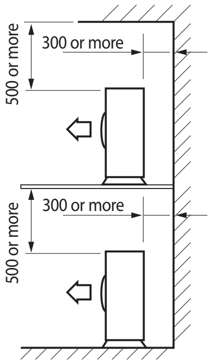
◆ When 3 sides of the outdoor unit are blocked by the wall


300 or more
300 or more
600 or more
600 or more
600 or more

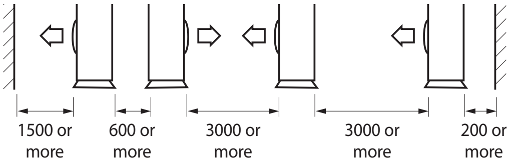
◆ When the walls are blocking front and the rear side of the outdoor units


300 or more
1500 or more
600 or more
600 or more

◆ When the upper part of the outdoor unit and the air outlet is opposite the wall


500 or more
300 or more
500 or more
300 or more

◆ When front and rear side of the outdoor unit is towards the wall


1500 or more
600 or more
3000 or more
3000 or more
200 or more

CAUTION

- If installation is done in inappropriate space, unit may generate sound and cause bad effect on the product.
- Installation must be done in level and in a place where vibration will not cause any effect.

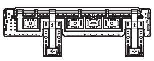
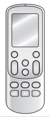
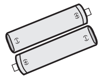
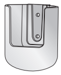
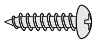
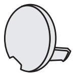
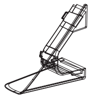
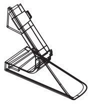
Accessories

The following accessories are supplied with the air conditioner:

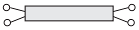
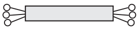
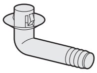
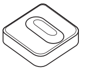
NOTE

- The number of each accessory is indicated in parentheses.

Accessories in the indoor unit case

Installation Plate (1) 	Remote controller (1) 	Batteries for Remote controller (2) 	User's & Installation Manual (1) 	Wi-Fi Manual (1)
Remote Control Holder (1) 	M4 x 16 Tapped Screws (2) 	Cap Screws(2) 	Guide Right(1) 	Guide Left(1) 

Accessories in the outdoor unit case

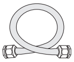
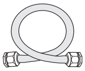
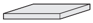
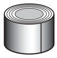
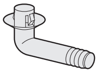
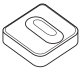
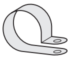
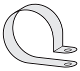
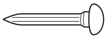
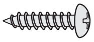
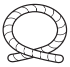
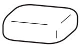
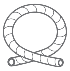
2-wire Assembly Cable (1)	3-wire Assembly Cable (2)	Drain Plug (1)	Rubber Leg (4)
			

NOTE

- The flare nuts are attached to the end of each pipe of an evaporator or a service port. Use the nuts when connecting the pipes.
- The assembly cable is optional. If it is not supplied, use the standard cable.
- The drain plug and rubber leg are only included when the air conditioner is supplied without the assembly pipe as seen in the picture below.

Optional accessories

The following connection accessories are optional. If they are not supplied, you should obtain them before installing the air conditioner.

Insulated Assembly Pipe, Ø6.35 mm (1)	**Insulated Assembly Pipe, Ø9.52 mm (1)**	**PE T3 Foam Tube Insulation (1)**	**Vinyl Tapes (2)**	**Drain Plug (1)**
				
Rubber Legs (4)	**Pipe Clamps A (3)**	**Pipe Clamps B (3)**	**Cement Nails (6)**	**M4 x 25 Tapped Screws (6)**
				
Drain Hose, length 2 m (1)	**Putty 100 g (1)**	**Foam Insulation(1)**		
				

NOTE

- If these accessories are supplied, they will be in the accessory box.

Tools required for installation

General Tools

- Vacuum Pump(Backward flowing prevention)
- Torque Wrench
- Screw Driver
- Pipe Cutter
- Spanner
- Reamer
- Drill
- Manifold Gauge
- Pipe Bender
- L Wrench
- Stud Finder
- Spirit Level
- Measuring Tape

Tools for test operations

- Thermometer
- Resistance Meter
- Electroscope

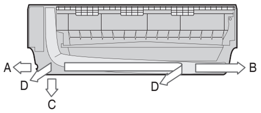
Fixing the installation plate

You can select the direction of the drain hose depending on where you want to install the indoor unit. Therefore before fixing the installation plate to a wall or a window frame, you must determine the position of the 65mm hole through which the cable, pipe and hose pass to connect the indoor unit to the outdoor unit.

When facing the wall, the pipe and cable can be connected from the:

- Right (A)
- Left (B)
- Underside_right (C)
- Rear_right or left (D)

❇ Direction of pipe

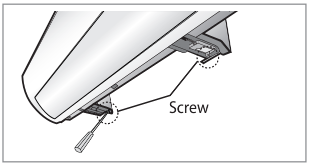


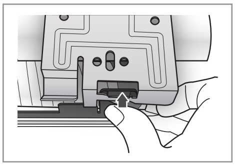
1. **Disassemble the cover panel as described in page 43~45.**
2. **Remove the Hanger plate from the indoor unit.**

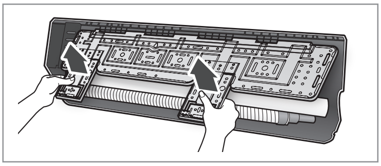
(1) Unscrew 2 screws that fixes the Hanger plate to the indoor unit.

(2) Push the hooks (on the bottom part of the indoor unit) up to release the installation plate from the hooks that holds it.

(3) Pull the installation plate to release it completely from the indoor unit.

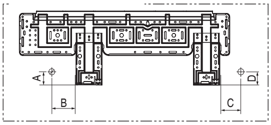






3. **Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 65 mm so that it slants slightly downwards.**

Pipe hole (Ø65 mm)



(Unit : mm)

Model	A	B	C	D
AR09HSFSPWKNEE AR12HSFSPWKNEE	36	190	81	36

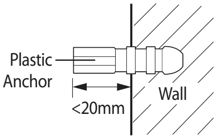
CAUTION

- Make sure to drill only one hole after choosing the direction of the pipe.

4. **Fix the indoor unit.**

If you fix the indoor unit on a wall

(1) Fix the installation plate to the wall giving attention to the weight of the indoor unit.



NOTE

- If you mount the plate to a concrete wall using plastic anchors, make sure that gaps between the wall and the plate, created by projected anchor, is less than 20mm.

If you fix the indoor unit on a window frame

(1) Determine the positions of the wooden uprights to be attached to the window frame.

(2) Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.

(3) Attach the installation plate to the wooden upright using tapping screws.

If you fix the indoor unit on a gypsum board

(1) Use stud finder to find out locations of the studs.

(2) Fix the plate hanger on two studs.

CAUTION

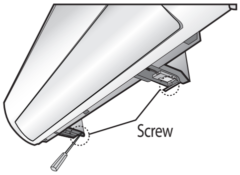
- Search for other spots if there are less than two studs, or the distance between the studs are different from the plate hanger.
- Fix the installation plate without inclining to one side.

WARNING

- Make sure that a wall can withstand the weight of the product. If you install the product in a place where it is not strong enough to withstand the product weight, the unit could fall and cause injury.

Assembling the hanger screw

Use 2 screws to fix the indoor unit with hanger plate as shown in the picture.



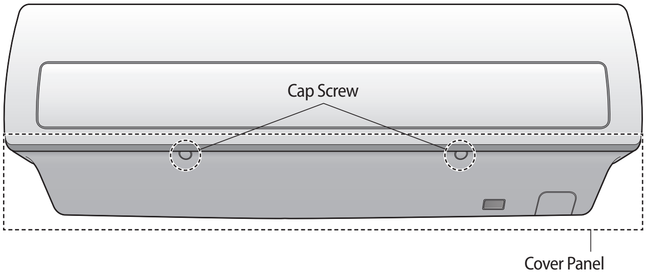
Disassembling/Assembling the Cover panel for indoor unit installation

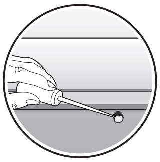
Please scan
this QR code for detail
video of indoor unit
installation.

In order to install the indoor unit, you must disassemble the cover panel first. Please proceed following instructions to disassemble and assemble the cover panel. Hooks (on the cover panel) may get damaged if you apply excessive force as you disassemble and assemble the cover panel. Please follow the following instructions.

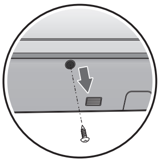
Removing the screws

Cover panel is assembled on the bottom part of the indoor unit (as shown in the illustration) and it is fastened with screws. Remove the Cap screw first and unfasten the screws so that you can disassemble the cover panel.





<Remove the Cap screw>

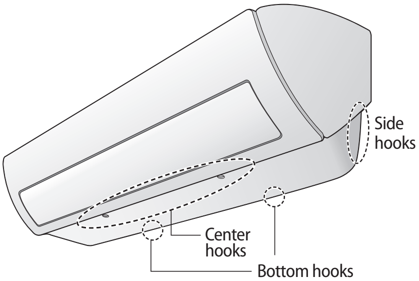


<Unfasten the screw>

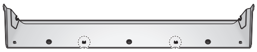
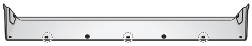
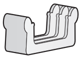
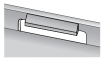
Disassembling/Assembling the Cover panel for indoor unit installation

Removing the Cover panel (Before mounting the indoor unit)

The bottom panel fits the main body using the side, center, and bottom hooks as shown. Unlock the side hooks first, and then unlock the center and bottom hooks.
Check the location of the hooks before removing the cover panel.

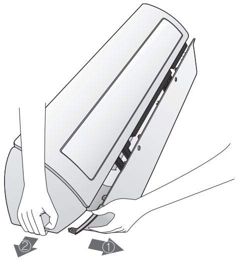


▶ Location of the hooks on the central part

Number and location of the hooks	
	
	
Center hook	**Bottom hook**
	

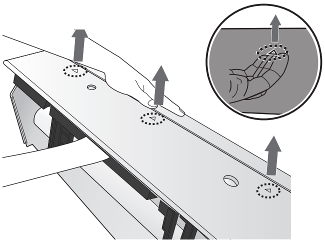
❋ For specific Hook location and quantity, please refer to cover panel with indicating arrows based on physical goods.

▶ Removing the hooks on the side



❋ Caution (fragile)
- Gently press the both side of the cover panel inwards (①) and release the hooks on both sides(②).

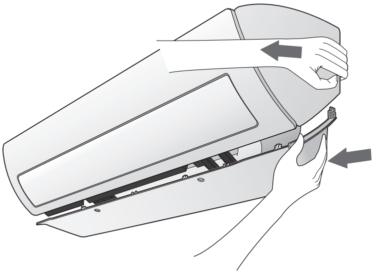
▶ Removing the hooks on the central part

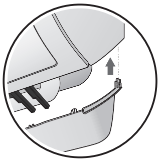


❋ Caution (fragile)
- Use both hands
- Release each hook by pushing it up at an angle.

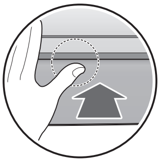
Assembling the Cover panel (After mounting the indoor unit)

To assemble the Cover panel, proceed in reverse order of disassembling.
Use both hands for assembling and be extra careful not to damage the pipes and drain hose.
Lock the side, center, and bottom hooks in this sequence. Tighten the bottom panel with the screws, and close the screw holes with their cap.

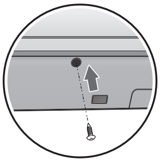




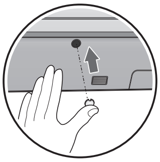
<Lock the side hook>



<Lock the bottom hook>



<Fasten the screw>



<Assemble the Cap screw>

Connecting the assembly cable

Cable specification

Model	Power cable	Interconnection cable	Type GL
AR09HSFSPWK/EE AR12HSFSPWK/EE	3G1.5mm^2 H07RN-F	3G1.0mm^2 H07RN-F	16A
		2x0.75mm^2 H05RN-F	

NOTE

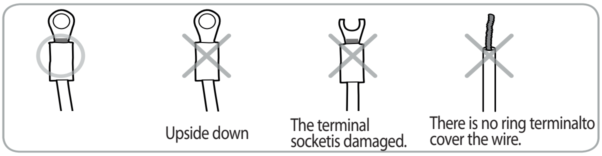
- Connect the power cable to the auxiliary circuit breaker. If every pole fails to connect to the power supply, it must be incorporated in a wire with a contact opening of ≥3 mm.
- Use shield cable (Category 5; less than 50pF/m) for noisy environmental site.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC: 60245 IEC 66/CENELEC: H07RN-F, IEC: 60245 IEC 57/CENELEC: H05RN-F)

Connecting the cable

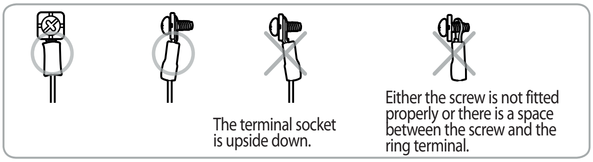
Electrical work

(1) For electrical and earth works, comply with the 'technical standards of electrical installations' and the the 'wiring regulations' of the Local wiring regulations.
(2) Tighten the terminal block screw to 1.2 ~1.8 N•m (12 ~18 kgf•cm).
(3) Precautions when connecting terminal blocks of the indoor unit

▶ Before connecting, make sure the connecting part of the terminal socket is facing upwards.


Upside down
The terminal socketis damaged.
There is no ring terminalto cover the wire.

▶ There must be no space between the terminal and the screw when connected.
- Any remaining space may become a fire hazard due to overheating of the electrical contact.


The terminal socket is upside down.
Either the screw is not fitted properly or there is a space between the screw and the ring terminal.

CAUTION

- For the terminal block wiring, use a wire with a ring terminal socket only.
  Regular wires without a ring terminal socket may become a fire hazard due to overheating of the electrical contact during a wiring work.

❊ When you install the unit, make first refrigerant connections and then electrical connections.
Connect the air conditioner to grounding system before performing the electrical connection.
If unit is uninstalled, first disconnect electrical cables, then refrigerant connections.

If the outdoor unit is more than 5.5 meters away from the indoor unit, you must extend the cable. The maximum length of the cable is 15 meters.

1. **Extend the assembly cable if necessary.**

CAUTION

- Do not connect two or more different cables to extend the length. It may cause fire.

Connecting the assembly cable

2 . **Open the cover panel.**

3 . **Remove the screw securing the connector cover.**

4 . **Pass the assembly cable through the rear of the indoor unit and connect the assembly cable to terminals. (Refer to the picture below)**

NOTE

- Each wire is labeled with the corresponding terminal number.

5 . **Pass the other end of the cable through the 65 mm hole in the wall.**

6 . **Close the connector cover by tightening the screw carefully.**

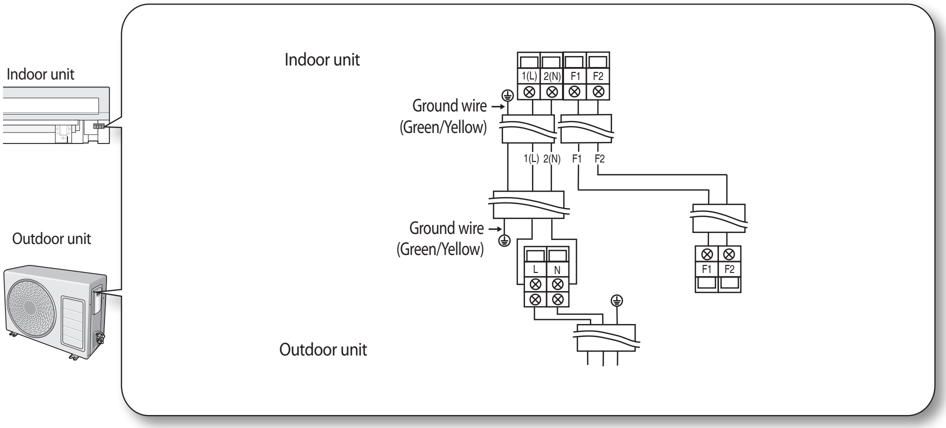
7 . **Close the cover panel.**

8 . **Remove the terminal board cover on the side of the outdoor unit.**

9. **Connect the cables to the terminals as seen in the picture.**

NOTE

- Each wire is labeled with the corresponding terminal number.



CAUTION

- Also circular terminal must be matched with screw size in terminal block.
- After connecting the cables, make sure terminal numbers on the indoor/outdoor unit matches.
- Please ensure that Power & Communication cables are separated, they must not be in the same cable.

10. **Connect the grounding conductor to the grounding terminals.**

11. **Close the terminal board cover by tightening the screw carefully.**

NOTE

- In Russia and Europe, consult with the supply authority to determine the supply system impedance before installation.

WARNING

- Connect the wires firmly so that wires can not be pulled out easily.
  (If they are loose, it could cause burn-out of the wires.)
- Connect the wires according to color codes, referring to the wiring diagram.
- The power cable and the interconnection cable should be selected according to the specification in page 45.

Installing and connecting the assembly pipe of the indoor unit

Connect indoor and outdoor units with field-supplied copper pipes by means of flare connections. Use insulated seamless refrigeration grade pipe only, (Cu DHP type according to ISO1337), degreased and deoxidized, suitable for operating pressures of at least 4200 kPa and for burst pressure of at least 20700 kPa. Under no circumstances must sanitary type copper pipe be used.

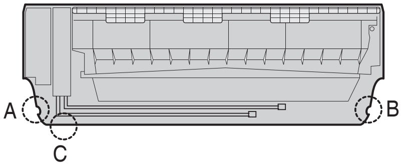
There are 2 refrigerant pipes of different diameters:

- The smaller one is for the liquid refrigerant
- The larger one is for the gas refrigerant

A short pipe is already fitted to the air conditioner. You may need to extend the pipe using the assembly pipe (optional).

The connection procedure for the refrigerant pipe varies according to the exit position of the pipe when facing the wall:

- Right(A)
- Left(B)
- Underside(C)
- Rear



1. **Cut out the appropriate knock-out piece (A or B) on the rear of the indoor unit unless you connect the pipe directly from the rear.**
2. **Smooth the cut edges.**
3. **Remove the protection caps of the pipes and connect the assembly pipe to each pipe. Tighten the nuts first with your hands, and then with a torque wrench, applying the following torque:**

Outer Diameter	Torque	
	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830

NOTE
- If you want to shorten or extend the pipes, refer to page 49~50.

4. **Cut off the remaining foam insulation.**
5. **If necessary, bend the pipe to fit along the bottom of the indoor unit. Then pull it out through the appropriate hole.**
   - ▶ The pipe should not project from the rear of the indoor unit.
   - ▶ The bending radius should be 100 mm or more.
6. **Pass the pipe through the hole in the wall.**
7. **For further details on how to connect to the outdoor unit and evacuate the air, refer to page 53~55.**

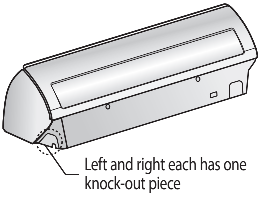
NOTE
- The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test; refer to page 57 for further details.

CAUTION
- Tighten the flare nut with torque wrench according to specified method.
  If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.
- DO NOT WALL UP THE PIPE CONNECTION !
  All refrigerant pipe connection must be easy accessible and serviceable.

Installing and connecting the assembly pipe of the indoor unit

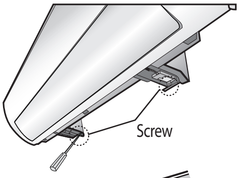
Assembling the hanger screw and guide

1. Cut out the knock-out piece according to the drain hose direction before fixing the indoor unit.



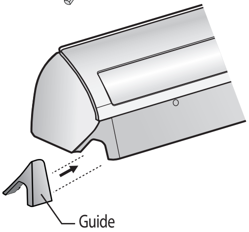
2. Fix the indoor unit on the wall.
   Pass the cables, pipes and hose through the hole which would be connected to the outdoor unit .

3. Use 2 screws to fix the indoor unit as shown in the picture.



4. Assemble the Guide into the position where the knock-out piece has been cut out before.
   There're three hooks on the Guide, they must be totally fixed to the unit.

❋ The method of assembling the Guide is same whether it's on right or on left.



Evacuating the indoor unit

The indoor unit is supplied with inert gas (nitrogen).
Before installing the unit, check if nitrogen gas flow out of indoor unit.
If this one isn't true, DO NOT INSTALL THE UNIT since leakage could be inside the indoor unit.

1. Unscrew the caps at the end of each pipe.

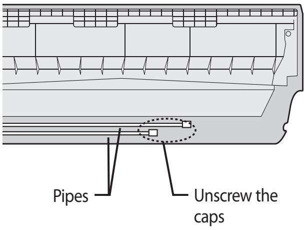
▶ All inert gas exhausts from the indoor unit.

NOTE

- To prevent dirt or foreign substances from getting into the pipes during installation, do NOT remove the caps completely until you are ready to connect the pipes.

CAUTION

- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.



Cutting or extending the pipe

The length of the pipe can be:

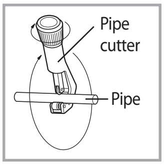
- Extended up to : see table page 38
- Shorten up to: see page 38

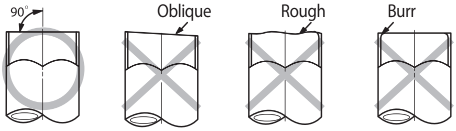
CAUTION

If you need a pipe longer than 5 meters:

- You must add refrigerant to the pipes; otherwise, the indoor unit may freeze.

1. **Make sure that you have all the required tools (pipe cutter, reamer, flaring tool and pipe holder).**
2. **If you want to shorten the pipe, cut it using a pipe cutter, ensuring that the cut edge remains at 90° with the side of the pipe (see below examples of correct and incorrect cut edges).**


Pipe
cutter
Pipe

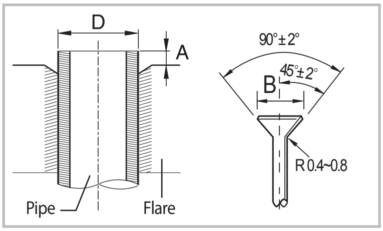

90°
Oblique
Rough
Burr

3. **To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.**

CAUTION

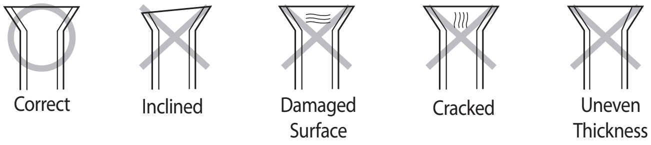
- Face the pipe down while removing the burrs to make sure that burrs do not get in to the pipe.

4. **Put a flare nut slightly into the pipe and modify the flare.**


D
A
90°±2°
45°±2°
B
R0.4~0.8
Pipe
Flare

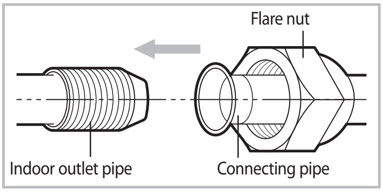
Outer Diameter (D)	Depth (A)	Flaring Size (B)
ø6.35 mm	1.3 mm	8.7 - 9.1 mm
ø9.52 mm	1.8 mm	12.8 - 13.2 mm
ø12.70 mm	2.0 mm	16.2 - 16.6 mm
ø15.88 mm	2.2 mm	19.3 - 19.7 mm

5. **Check if you flared the pipe correctly (see examples of incorrectly flared pipes below).**


Correct
Inclined
Damaged
Surface
Cracked
Uneven
Thickness

Cutting or extending the pipe

6. **Align the pipes to connect them easily. Tighten the flare nuts first with your hands, and then with a torque wrench, applying the following torque:**



Outer Diameter	Torque	
	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830

NOTE

- Excessive torque can be cause of gas leakage. If extending pipe by welding/brazing please ensure nitrogen is used during welding/brazing process. The joint must be accessible and serviceable.

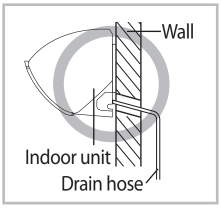
7. **For further details on how to connect to the outdoor unit and evacuate the air, refer to page 53~55.**

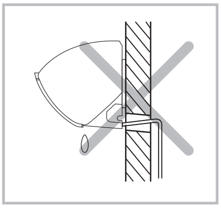
CAUTION

- Tighten the flare nut with torque wrench according to specified method.
  If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.

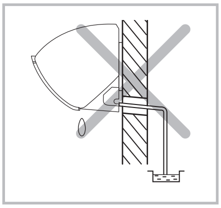
Installing and connecting the drain hose of the indoor unit

When installing the drain hose for the indoor unit, check if condensation draining is adequate.
When passing the drain hose through the 65 mm hole drilled in the wall, check the followings:

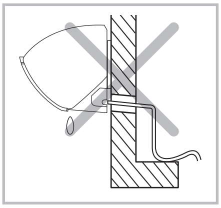




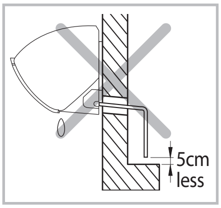
The drain hose must NOT slant upwards.



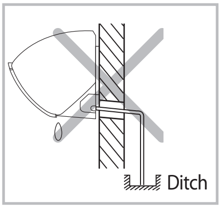
The end of the drain hose must NOT be placed under water.



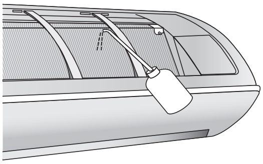
The drain hose must not be bent.



Keep a clearance of at least 5 cm between the end of the drain hose and the ground.

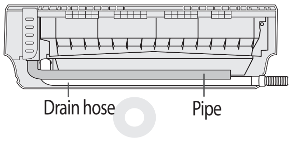


Do not place the end of the drain hose in a hollow.

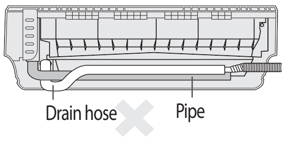


After completing the installation of the drain hose, pour water into the drain pan to check whether the hose is well drained.

1) Correct connection



2) Incorrect connection



CAUTION

- Don't tie drain hose to the assembly pipe which may lead to water leakage.
- If the diameter of the connection hose is smaller than the product's drain hose, water leakage may occur.

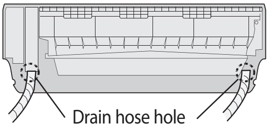
Drain hose installation

1. If necessary, connect the 2 meter extension drain hose to the drain hose.
2. If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
3. Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.

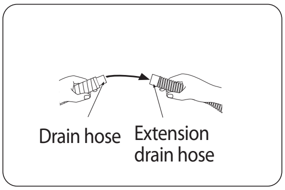
NOTE

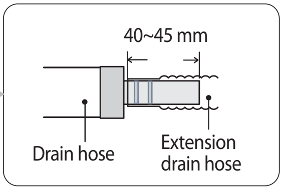
- If you do not use the other drain hose hole, block it with a rubber stopper.

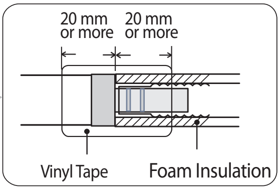
4. When extending the Drain Hose, hold the end of Drain Hose and Extended Hose, rotate and insert the drain hose into Extended hose for 40~45 mm. Make sure the two hoses are firmly connected, there is no water leakage.
5. Connect the Drain Hose after using Foam Insulation to wrap the Extended Hose. Then, Use vinyl tape to wrap the each side of connection by 20 mm .



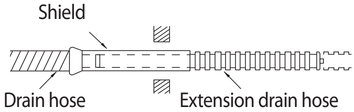
Installing and connecting the drain hose of the indoor unit


Drain hose
Extension drain hose


40~45 mm
Drain hose
Extension drain hose


20 mm or more
20 mm or more
Vinyl Tape
Foam Insulation

6. Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
7. Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.
8. Using natural drainage method, check the drainage is normal.


Shield
Drain hose
Extension drain hose

NOTE

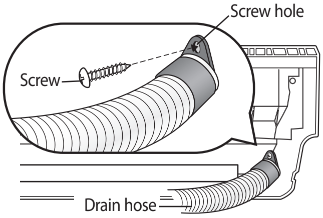
- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 57 for further details.

CAUTION

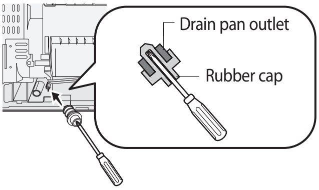
- Make sure the installed direction of the drain hose is correct.
  Inadequate installation may cause condensate water leakage.
- If the drain hose is routed inside the room, insulate the hose so that dripping condensation does not damage the furniture or floors.
- DO NOT WALL UP THE DRAIN HOSE CONNECTION !
  Drain hose connection must be easy accessible and serviceable.

Changing direction of the drain hose

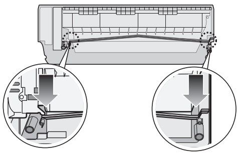
Change the direction only when it is necessary.


Screw hole
Screw
Drain hose

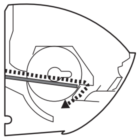
1. **Detach the rubber cap with the pliers.**
2. **Detach the drain hose by pulling it and turning to the right.**
3. **Insert the drain hose by fixing it with the screw into the groove of the drain hose and the outlet of the drain pan.**
4. **Attach the rubber cap with a screwdriver by turning it to the left until it fixes to the end of the groove.**
5. **Check for leakage on both side of the drain outlet.**


Drain pan outlet
Rubber cap

Pour the water in direction of arrow.



❇ Direction of the drained water



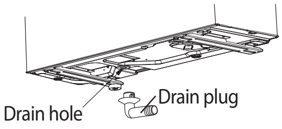
CAUTION

- Make sure the indoor unit is in upright position when you pour water to check for leakage.
  Make sure that the water does not overflow onto the electrical part.

Installing and connecting the drain hose of the outdoor unit

While heating, ice may accumulate. During the process of defrosting, check if condensation draining is adequate. For adequate draining, do the following.

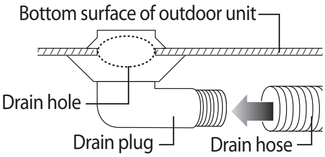
1. **Insert the drain plug into the drain hole on the underside of the outdoor unit.**



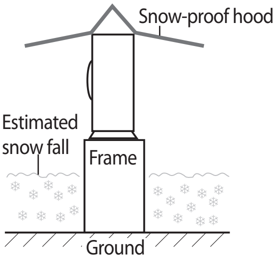
CAUTION

- To avoid drain plug from contacting the ground, secure gap between the ground and the bottom surface of the outdoor unit.

2. **Connect a drain hose to the drain plug.**



3. **Ensure that condensation draining is adequate.**



CAUTION

- In areas with heavy snow fall, piled snow could block the air intake.
  To avoid this incident, install a frame that is higher than estimated snow fall. In addition, install a snow-proof hood to avoid snow from piling on the outdoor unit.

Evacuating the connected pipes

The outdoor unit is loaded with sufficient R-410A refrigerant. Do not vent R-410A into atmosphere: it is a fluorinated greenhouse gas, covered by Kyoto Protocol, with a Global Warming Potential (GWP) = 2088.

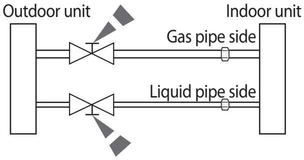
You should evacuate the air in the indoor unit and in the pipe. If air remains in the refrigerant pipes, it affects the compressor. It may cause reduction of cooling capacity and malfunction. Use Vacuum Pump as seen in the picture.

CAUTION

- When installing, make sure there is no leakage. When recovering the refrigerant, ground the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

Evacuating the connected pipes

1. **Connect each assembly pipe to the appropriate valve on the outdoor unit and tighten the flare nut.**
2. **Tighten the flare nut first with your hands, and then with a torque wrench, applying the following torque.**



NOTE

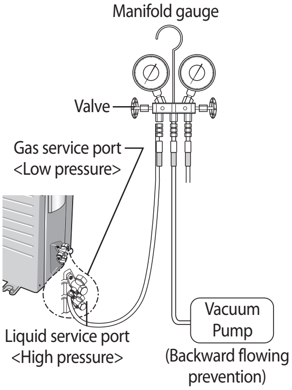
- Excessive torque can be cause of gas leakage.

CAUTION

- Make the electrical connection and leave the system into "stand by mode". Do not turn on the system!
  This is necessary for better vacuum operation (full OPEN position of Electronic Expansion Valve - EEV -).

Outer Diameter	Torque	
	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830

3. **Connect the charging hose of the low-pressure side of manifold gauge to a gas service port as seen in the picture.**
4. **Open the valve of the low pressure side of manifold gauge counterclockwise.**
5. **Evacuate the air in the connected pipes using the vacuum pump for about 15 minutes.**
   - ▶ Make sure that pressure gauge shows -0.1 MPa(-76 cmHg) after about 10 minutes.
     This procedure is very important to avoid a gas leak.
   - ▶ Close the valve of the low pressure side of manifold gauge clockwise.
   - ▶ Turn off the vacuum pump.
   - ▶ Check for 2 minutes if there is any pressure change.
   - ▶ Remove the hose of the low pressure side of manifold gauge.
6. **Set a valve cork of liquid and gas service port to the open position.**



Adding Refrigerant

Add refrigerant charge according to table below:

If you use a pipe longer than 5 **m,**
'15' g of refrigerant R-410A must be added for each extra meter.

If you use a pipe shorter than 5 **m,**
The evacuate time is normal.

Refer to the Service Manual for further details.

CAUTION

- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.

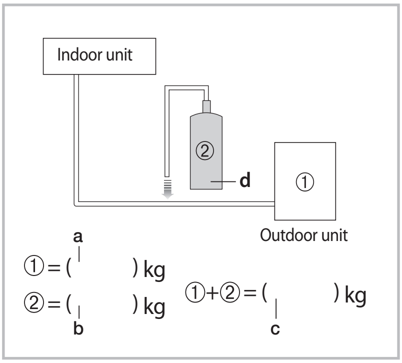
Important information regulation regarding the refrigerant used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.
Do not vent gases into the atmosphere.

Refrigerant type	GWP value
R-410A	2088

❇ GWP=Global Warming Potential

1. **Please fill in with indelible ink,**
   - ▶ ① the factory refrigerant charge of the product,
   - ▶ ② the additional refrigerant amount charged in the field and
   - ▶ ①+② the total refrigerant charge. on the refrigerant charge label supplied with the product.



NOTE

a. Factory refrigerant charge of the product:
   see unit name plate
b. Additional refrigerant amount charged in the field (Refer to the above information for the quantity of refrigerant replenishment.)
c. Total refrigerant charge
d. Refrigerant cylinder and manifold for charging

CAUTION

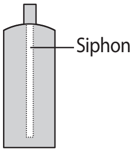
- The filled-out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).

Charging the refrigerant under conditions of liquid by using a liquid pipe

R-410A is a mixed type of refrigerant. It is necessary for recharging under conditions of liquid. When recharging refrigerant from the refrigerant cylinder to the equipment, follow the instructions below.

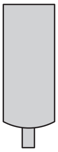
1. **Before recharging, check whether the cylinder has a siphon or not.**
   There are two ways to recharge the refrigerant.

Cylinder with siphon



▶ Charge the refrigerant standing the cylinder upright.

Cylinder without siphon



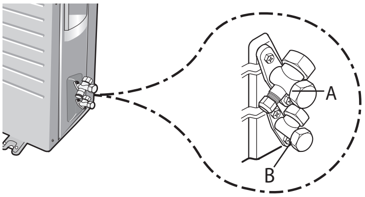
▶ Charge the refrigerant turning the cylinder upside down.

NOTE

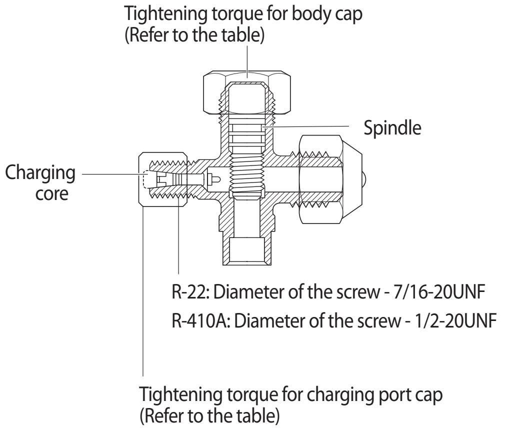
- If R-410A refrigerant is charged with gas, the composition of the charged refrigerant changes and the characteristics of the equipment vary.
- During the measuring operation of refrigerant quantity added use electronic scales.
  If cylinder doesn't have syphon, upset it.

Performing the gas leak tests

Make sure to check for gas leaks before completing the installation process (connecting the assembly pipe and hose between indoor unit and outdoor unit, insulating the cables, hose and pipe, and fixing the indoor unit to the installation plate).

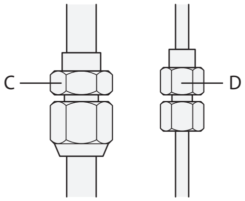


Test part for outdoor unit


Tightening torque for body cap
(Refer to the table)
Spindle
Charging
core
R-22: Diameter of the screw - 7/16-20UNF
R-410A: Diameter of the screw - 1/2-20UNF
Tightening torque for charging port cap
(Refer to the table)

To check for gas leaks on the outdoor unit,
Check the valve A and B using a leak detector.

To check for gas leaks on the indoor unit,
Check the flare nut C and D using a leak detector.



Test part for indoor unit

- ▶ Before inspecting the leakage, use a torque wrench to close the cap for the service valve. (Comply with a tightening torque for each size of the diameter,and tighten the cap firmly to prevent any leakage.).
- ▶ To check for any possible leakage, insert inert gas into the pipes connected to indoor/outdoor units and check the connection part of the indoor/outdoor units with soap lather or liquid for leakage test.

Outer Diameter (mm)	Tightening torque	
	Body cap (N•m)	Charging port cap (N•m)
ø 6.35	20 ~ 25	10 ~ 12
ø 9.52	20 ~ 25	
ø12.70	25 ~ 30	
ø15.88	30 ~ 35	
ø19.05	35 ~ 40	

(1 N•m = 10 kgf•cm)

Leak test with nitrogen (before opening valves)
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R-410A, it's responsible of installer to pressurize the whole system with nitrogen (using a cylinder with pressure reducer) at a pressure above 40 bar (gauge).

Leak test with R-410A (after opening valves)
Before opening valves, discharge all the nitrogen from the system and create vacuum according to page 53~55.
After opening valves, check leaks using a leak detector for refrigerant.

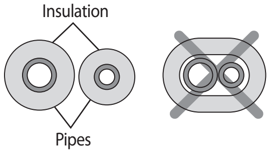
Pump down (before disconnecting the refrigerant connections for unit repair, removal or disposal)
Pump-down is an operation intended to collect all the system refrigerant in the outdoor unit.
This operation must be carried out before disconnecting the refrigerant tubing in order to avoid refrigerant loss to the atmosphere.

- ▶ Shut off the liquid valve with the Allen wrench.
- ▶ Turn the system on in cooling with fan operating at high velocity.
  (Compressor will immediately start, provided 3 minutes have elapsed since the last stop).
- ▶ After 2 minutes of operation, shut the suction valve with the same wrench.
- ▶ Turn the system off and switch mains supply off.
- ▶ Disconnect tubing. After disconnection, protect valves and tubing ends from dust.
- ▶ Compressor damage may occur if run at a negative suction pressure.

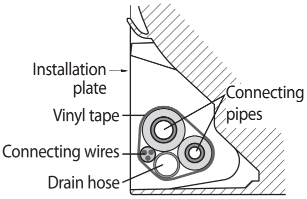
Fixing the indoor unit in place

Perform the following work on the area where gas leak test was done priory.

After checking for gas leaks in the system, insulate the pipe, hose and cables.
Then place the indoor unit on the installation plate.


Insulation
Pipes

1. **To minimise condensation problems, wrap foam insulation (as shown in the figure) on a part without insulation on the end of the pipes.**
2. **Wind the pipe, assembly cable and drain hose with vinyl tape.**
3. **Place the bundle (the pipe, assembly cable and drain hose) in the lower part of the indoor unit carefully so it does not project from the rear of the indoor unit.**
4. **Hook the indoor unit to the installation plate and move the unit to the right and left until it is securely in place.**


Installation plate
Vinyl tape
Connecting wires
Drain hose
Connecting pipes

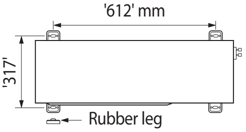
CAUTION

- Make sure pipe does not move when you install the indoor unit on an installation plate.

5. **Wrap the rest of the pipe with vinyl tape.**
6. **Attach the pipe to the wall using clamps (optional).**

Fixing the outdoor unit in place

Install the outdoor unit in level on a stable base to help avoid the generation of noise and vibration, especially when installing the unit close to a neighbor.
If you install the outdoor unit in a place exposed to strong winds or at a height, fix it to an appropriate support (wall or ground).


'612' mm
'317'
Rubber leg

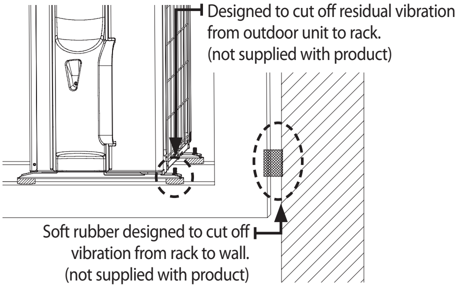
1. **Place the outdoor unit as indicated on the top of the unit to let the discharged air out properly.**
2. **Fix the outdoor unit in level to an appropriate support using anchor bolts.**
3. **If the outdoor unit is exposed to strong winds, install shield plates around the outdoor unit so that the fan can operate correctly.**

NOTE

- Secure the rubber leg to help prevent the generation of noise and vibration.

Outdoor unit installed on the wall by rack

- Ensure the wall will be able to suspend the weight of rack and outdoor unit;
- Install the rack close to the column as much as possible;
- Install proper grommet in order to help reduce noise and residual vibration transferred by outdoor unit towards wall.

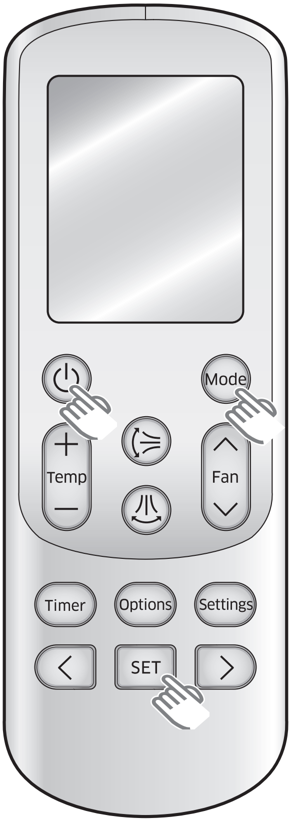

Designed to cut off residual vibration from outdoor unit to rack.
(not supplied with product)
Soft rubber designed to cut off vibration from rack to wall.
(not supplied with product)

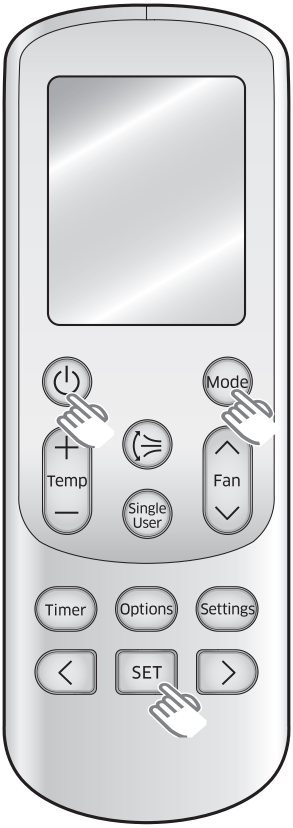
Smart Install mode

This model supports Smart Install mode which checks installation status to find out if there is any problems with any of the functions. Execute Smart Install mode after installation.

1. Check the installation status of the air conditioner.
    1) Check the power supply, service valve (if it's open), power cable of the indoor and outdoor unit and amount of additional refrigerant required for pipe extension.
    2) Status of the indicator after supplying the power : Standby status

2. When the air conditioner is in standby status, use the remote controller to start the Smart Install mode.
    1) Press the **Set**, **Mode** and **Power** ⏻ button simultaneously for 4 seconds.


Mode
Temp
Fan
Timer
Options
Settings
SET


Mode
Temp
Single User
Fan
Timer
Options
Settings
SET

❋ Remote controller may be different (image/functions) depending on the model.

2) Smart Install mode in progress

- 88 Display : Progress will be diplayed in 0~99.
- LED Display : Indicator on the indoor unit display will blink in sequence and then all indicators will blink. (This will be repeated.)

TYPE	88 Display	LED Display
Indoor unit indicator	88 ○ ○	○ LED 1 ○ LED 2 ○ LED 3

❋ Display may be different depending on the model.

3. Smart Install mode will end.
   1) Smart Install mode will take approximately 7~13 minutes. (Actual time may be different depending on the model.)
   2) When Installation is successful : Smart Install mode will end with ringing sound and the air conditioner will be in standby status. (Error message will not be displayed on the indoor unit indicator and the remote controller and buttons on the indoor unit will work normally.)
   3) When installation is not successful : Smart Install mode will end and error message will be displayed on the indoor unit display.

CAUTION

1. Take necessary measures when error occurs.
   - **Refer to the service manual for necessary measures for each error that occurs.**
2. Use the product after taking care of the error that occurs.

Error indicator				**Error**	**Measures to take by an installer**
88 Display	**LED Display**				
	LED 1	**LED 2**	**LED 3**		
	⏻	⏲	☀ / 📶 / ⁘		
E101	○	◑	◑	Commnuication Error between Indoor and outdoor unit	1. Check the connection wire between indoor and outdoor unit. (whether the power cable and commnunication cable is crossed or not)
E121	○	◑	○	Error on indoor temperature sensor	1. Check the connection of the connector
E122,E123	◑	◑	○	Error on indoor heat exchanger	1. Check the connection of the connector
E154	○	○	◑	Error on indoor fan motor	1. Check the connection of the connector 2. Remove foreign substance (Check for the cause that restrains motor)
88 display and all LED blinks E162,E163	◑	◑	◑	EEPROM/Option error	1. Re-set options
E422	●	○	◑	Refrigerant flow blocking Error	1. Check if the service valve is completely open. 2. Check if there's any blockage in the refrigerant pipe which connects indoor and outdoor unit. 3. Check for refrigerant leak.
E554	●	○	◑	Lack of Refrigerant (For Inverter model only)	1. Check if sufficient amount of additional refrigerant was charged for the pipe length that exceeds 7.5m. 2. Check for refrigerant leak between valve and pipe connection.
	❋ Above LED pattern is displayed when there's error is occurred on outdoor unit. Check the LED display on outdoor unit for the details.				

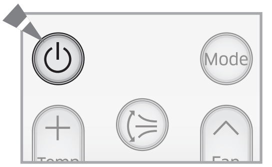
❋ ○ : Off / ◑ : Blinking / ● : On

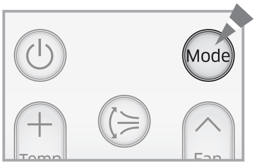
Final check and trial operation

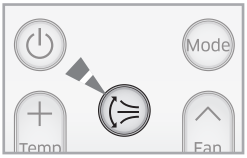
To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

Check the followings:

- Strength of the installation site
- Tightness of pipe connection to detect gas leak
- Electric wiring connection
- Heat-resistant insulation of the pipe
- Drainage
- Grounding conductor connection
- Correct operation (follow the steps below)







1. **Press the Power ⏻ button and check the following:**
   - ▶ The indicator on the indoor unit lights up.
   - ▶ The airflow blade opens and the fan gears up for operation.
2. **Press the Mode button to select Cool or Heat mode.**
   - ▶ In Cool mode, use **Temp +** or **–** button and set the temperature at 16 °C.
   - ▶ In Heat mode, use **Temp +** or **–** button and set the temperature at 30 °C .

NOTE

- Approximately 3~5 minutes later, outdoor unit will start to operate and the Cool or Warm air will blow out.
- After 12 minutes of stationary condition check the indoor unit air treatment.

Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp:
From 10 °C to 12 °C (indicative delta T)

Heating mode (indoor unit check) → Outlet air temp. - Inlet air temp:
From 11 °C to 14 °C (indicative delta T)

In heating mode, the indoor fan motor can remain off to avoid cold air blown into conditioned space.

3. **Press the Air swing button and check the following:**
   - ▶ The airflow blades work properly.
4. **Press the Power ⏻ button to stop the operation.**

NOTE

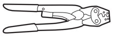
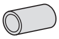
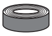
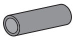
- When you complete the installation successfully, hand over this manual to the user for storage in a handy and safe place.

Pump down procedure (when removing the product)

1. **Press the Power ⏻ button on the indoor unit for 5 seconds. Beep will sound immediately to let you know that the product is ready for pump down procedure. Please let the compressor run for more than 5 minutes.**
2. **Release the valve caps on High and Low pressure side.**
3. **Use L wrench to close the valve on the high pressure side.**
4. **After approximately 2 minutes, close the valve on the low pressure side.**
5. **Stop operation of the air conditioner by pressing the power button on the indoor unit or remote controller.**
6. **Disconnect the pipes.**

How to connect your extended power cables

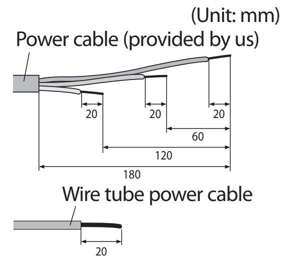
Items to prepare
(compressor and insulation tape should be prepared by an installation technician.)

Tools	Crimping pliers	Connection sleeve (mm)	Insulation tape	Contraction tube (mm)
Spec	MH-14	20xØ7.0(HxOD)	Width 18 mm	50xØ8.0(LxOD)
Shape				

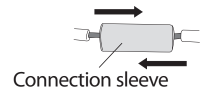
1. **As shown in the figure, peel off the shields from the rubber/wire of the power cable.**
   - Peel off 20 mm of the wire shields of the tube installed already.

CAUTION

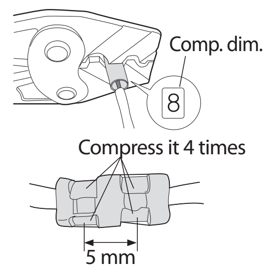
- After peeling off the tube wire, you must insert a contraction tube.


(Unit: mm)
Power cable (provided by us)
20
20
20
60
120
180
Wire tube power cable
20

2. **Insert both sides of core wire of the power cable into the connection sleeve.**

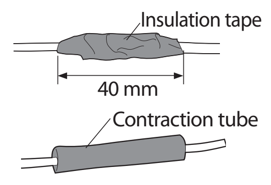

Connection sleeve

3. **Using a compressor, compress the two points and flip it over and compress another two points in the same location.**
   - The compression dimension should be 8.0.
   - After compressing it, pull both sides of the wire to make sure it is firmly pressed.

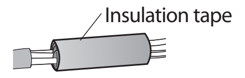

Comp. dim.
8
Compress it 4 times
5 mm

4. **Wrap it with the insulation tape twice and position your contraction tube in the middle of the insulation tape.**

5. **Apply heat to the contraction tube to contract it.**

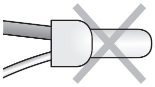

Insulation tape
40 mm
Contraction tube

6. **After tube contraction work is completed, wrap it with the insulation tape to finish.**


Insulation tape

WARNING

- In case of extending the electric wire, please DO NOT use a round-shaped pressing socket.
  - Incomplete wire connections can cause electric shock or a fire.



Display Error and Check Method

Indoor Display Error and Check Method

ERROR MODE				DESCRIPTION
Indoor	Outdoor			
	YEL	GRN	RED	
	○	◎	●	Normal operation
	●	●	●	Power on reset(1sec.)
	○	○	○	Power off / VDD NG
dF	○	◎	●	When dF shows on the 88 segment of the Indoor unit, this means that the system is in defrost mode. Note that during this operation period, system performance will be reduced.
E101	○	○	●	Communcation error (Indoor↔Outdoor)
E102	○	●	●	
E121				Indoor room temperature sensor error
E122				Evap-In temperature sensor error
E154				Fan error (Indoor)
E162				EEPROM error (Indoor)
E163				Option setting error
E203	◎	●	●	1min. Time out Communcation (Inv micom↔Main micom)
E221	◎	○	◎	Outdoor temperature sensor error
E231	◎	●	◎	Outdoor Coil temperature sensor error
E251	◎	◎	○	Discharge temperature sensor error
E416	◎	○	●	Discharge over temperature
E422	●	●	○	EEV or Valve Close error-Self diagnosis
E554				Gas-Leak error
E440/E441	●	◎	○	Out of the Limit of the operation(Outdoor temperature)
E458	●	○	○	Fan error (Outdoor)
E461	○	◎	○	Compressor starting error
E462	●	◎	●	Compressor trip error / PFC over current
E464	○	○	◎	IPM over current (O.C)
E465	◎	●	○	Compressor V-limit error
E466	○	●	◎	DC-Link voltage under/over error
E467	●	○	●	Compressor rotation error(comp. wire missing error)
E468	◎	◎	●	Current sensor error
E469	●	◎	◎	DC-Link voltage sensor error
E470	○	●	○	EEPROM error (Outdoor)
E471	●	○	◎	OTP error
E472	●	●	◎	AC line zero cross signal error
E474	◎	◎	●	Heat-Sink sensor error
E483	○	●	◎	H/W DC-Link over
E484	○	●	◎	PFC over load
E485	◎	◎	●	Input current sensor error
E500	◎	●	○	Heat-Sink overheat error
E556	◎	○	○	Capacity miss match error

Record of Installation:

It is recommended that your receipt be stapled to this page for proof of purchase date and/or for warranty purposes should it be required.

Please ensure that the following information is recorded once the installation has been completed:

Purchase Information:

Date of Purchase:	
Dealer Company Name	
Dealer Company Address	

Product Information (Data can be found on the product mark plates):

Outdoor	Model Code	
	Serial Number	
	Software Version	
Indoor	Model Code	
	Serial Number	
	Software Version	

Installation Information:

Date of Installation:	
Location/Address:	
Installation Company Name	
Installation Company Address	

Recommended Installation Guidance (On the behalf of the customer):

	Yes	No
Has the customer been provided guidance regarding the maintenance of the product?		
Has the customer been provided guidance regarding the operation of the product?		

In order to ensure the correct installation and operation of this product, it is recommended that a service visit be arranged within a reasonable period of time.

In the event of a service issue, please refer to the troubleshooting guide of the relevant supporting manuals. It is recommended that a skilled service technician be contacted for support. Should urgent support be required then, using the information provided, contact the local Samsung office via email or telephone so that support can be initiated via our approved service centres (ASC'S) within 24hrs.

It is also recommended that the product be registered with the manufacturer shortly after the date of installation. Please register your product at the following location:
www.samsung.com/warranty

QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT
UK	0330 SAMSUNG (7267864)	www.samsung.com/uk/support
EIRE	0818 717100	www.samsung.com/ie/support
GERMANY	0180 6 SAMSUNG bzw. 0180 6 7267864* (*0,20 €/Anruf aus dem dt. Festnetz, aus dem Mobilfunk max. 0,60 €/Anruf) [HHP] 0180 6 M SAMSUNG bzw. 0180 6 67267864* (*0,20 €/Anruf aus dem dt. Festnetz, aus dem Mobilfunk max. 0,60 €/Anruf)	www.samsung.com/de/support
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SLOVENIA	080 697 267 (brezplačna številka) 090 726 786 (0,39 EUR/min) klicni center vam je na voljo od ponedeljka do petka od 9. do 18. ure.	www.samsung.com/si
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DB68-05270A-03

AR09HSFSPWK/EE
AR12HSFSPWK/EE

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user & installation manual

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imagine the possibilities

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